NC DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
STRUCTURE MANAGEMENT UNIT

ATTENTION: PRIORITY MAINTENANCE ISSUED,TEMPORARY SHORING - COLLARED PILES

Structure Safety Report

Routine Element Inspection - Contract

COUNTY: YADKIN STRUCTURE NUMBER: 980020 FREQUENCY: 24 MONTHS

FACILITY CARRIED: SR1152 MILE POST:

LOCATION: .2 MI.S.JCT.SR1151

FEATURE INTERSECTED: SOUTH DEEP CREEK

LATITUDE: 36° 5' 50.82" LONGITUDE: 80° 40' 33.55"

SUPERSTRUCTURE: TIMBER FLOOR ON I-BEAMS (BMD-8)

SUBSTRUCTURE: E.BTS&INT.BT:TIMBER CAPS/TIMBER PILES@ VAR.CTS.

2 @ 45'-3"

SPANS: 2 @ 45"-3

☐ FRACTURE CRITICAL ☑ TEMPORARY SHORING ☐ SCOUR CRITICAL ☐ SCOUR PLAN OF ACTION

PRESENT CONDITION: Poor INSPECTION DATE: 06/01/2015

POSTED SV: 17 POSTED TTST: 20

OTHER SIGNS PRESENT: 4 DELINEATORS, 2 NARROW BRIDGE



South approach looking north.

Sign noticed issued for		Number Required
NO	WEIGHT LIMIT	0
NO	DELINEATORS	0
NO	NARROW BRIDGE	0
NO	ONE LANE BRIDGE	0
NO	LOW CLEARANCE	0

INSPECTED BY	SIGNATURE	ASSISTED BY
MARK WADE	M S Wade	KYLE SCOTT

BRIDGE I & A FORM 1(97) AA SHEET 1 AA

BRIDGE INSPECTION RECORD AND SUMMARY FOR SHORED STRUCTURES OR STRUCTURES WITH TEMPORARY REPAIRS MADE TO KEEP A BRIDGE OPEN

BRIDGE: **980020** COUNTY: **Yadkin** DATE: 11/28/2011

THE FOLLOWING S. I. & A ITEMS ARE TO BE CODED TO REFLECT THE FACT THAT THE STRUCTURE IS SHORED OR HAS HAD TEMPORARY REPAIRS MADE TO KEEP THE BRIDGE OPEN :

	CODE	BY
S I & A ITEM 103 - TEMPORARY STRUCTURE DESIGNATION	T	TSE
S I & A ITEM 59 - SUPERSTRUCTURE		
S I & A ITEM 60 - SUBSTRUCTURE	4	TSE 11/28/11

S I & A ITEM 64 OPERATING RATING HS 01 BY: BM

S I & A ITEM 66 - INVENTORY RATING HS 01 BY: BM

COMMENTS

Some piles have been encased with concrete.

Temporary Repairs

Retain Temp - THS 09/17/15

Revised 11/7/2006

Span Element Report

Structure Number: 980020 Inspection Date: 06/01/2015

Span Number 1 Span Length 45.25 Feet Number of Beams/Girders: 8

Element Number	Parent Number	Element Name	Total Quantity	Level 1 Quantity	Level 2 Quantity	Level 3 Quantity	Level 4 Quantity	Maint. Quantity	Maint. Code
31		Timber Deck	909	834	0	75	0	75	3324
107		Steel Open Girder/Beam	344	44	0	215	85	300	3314
515	107	Steel Protective Coating	1840	700	0	1140	0	1140	3342
216		Timber Abutment	25	7	2	16	0	18	3346
228		Timber Pile	4	0	0	4	0	7	3344
235		Timber Pier Cap	20	0	0	20	0	20	3344
316		Other Bearings	16	0	0	16	0	16	3334
515	316	Steel Protective Coating	16	0	0	16	0	16	3342
332		Timber Bridge Railing	92	8	7	77	0	84	3316
510		Wearing Surface	868	778	0	90	0	90	2816

"Near" Approach and Substructure quantities have been include for reporting purposes. The last span will also include End Bent 2 and Far Approach quantities where applicable

Span Number 2 Span Length 45.25 Feet Number of Beams/Girders: 8

Element Number	Parent Number	Element Name	Total Quantity	Level 1 Quantity	Level 2 Quantity	Level 3 Quantity	Level 4 Quantity	Maint. Quantity	Maint. Code
31		Timber Deck	909	829	0	80	0	80	3324
107		Steel Open Girder/Beam	344	67	0	264	13	277	3314
515	107	Steel Protective Coating	1840	610	0	1230	0	1230	3342
216		Timber Abutment	25	13	2	10	0	12	3346
228		Timber Pile	10	0	0	8	2	75	3344
235		Timber Pier Cap	40	11	0	29	0	29	3344
316		Other Bearings	16	0	0	16	0	16	3334
515	316	Steel Protective Coating	16	0	0	16	0	16	3342
332		Timber Bridge Railing	92	11	2	77	2	81	3316
510		Wearing Surface	868	688	20	160	0	180	2816

"Near" Approach and Substructure quantities have been include for reporting purposes. The last span will also include End Bent 2 and Far Approach quantities where applicable

Superstructure Detailed Element Quantites

Structure Number: 980020

Inspection Date: 06/01/2015

Structure Number: 980020 Inspection Date: 06/01/2015

Span Number 1

Element Location	Location Number	Element Number	Element Name	Total Quantity	Level 1 Quantity	Level 2 Quantity	Level 3 Quantity	Level 4 Quantity	Maint. Quantity	Maint. Code	Priority Maintenance
☑ Deck	1	31	Timber Deck	909	834	0	75	0	75	3324	☐ Requested
☑ Bridge Rail	1	332	Timber Bridge Railing	46	4	7	35	0	42	3316	☐ Requested
☑ Bridge Rail	2	332	Timber Bridge Railing	46	4	0	42	0	42	3316	☐ Requested
☑ Wearing Surfaces		510	Wearing Surface	868	778	0	90	0	90	2816	☐ Requested
☑ Beam	1	107	Steel Open Girder/Beam	43	22	0	20	1	21	3314	☑ Requested
Protective System		515	Steel Protective Coating	230	105	0	125	0	125	3342	
☑ Beam	2	107	Steel Open Girder/Beam	43	1	0	20	22	42	3314	☑ Requested
Protective System		515	Steel Protective Coating	230	50	0	180	0	180	3342	
☑ Beam	3	107	Steel Open Girder/Beam	43	2	0	30	11	41	3314	☑ Requested
Protective System		515	Steel Protective Coating	230	90	0	140	0	140	3342	
☑ Beam	4	107	Steel Open Girder/Beam	43	3	0	25	15	40	3314	☑ Requested
Protective System		515	Steel Protective Coating	230	90	0	140	0	140	3342	
☑ Beam	5	107	Steel Open Girder/Beam	43	2	0	25	16	41	3314	☑ Requested
Protective System		515	Steel Protective Coating	230	70	0	160	0	160	3342	
☑ Beam	6	107	Steel Open Girder/Beam	43	10	0	25	8	33	3314	☑ Requested
Protective System		515	Steel Protective Coating	230	110	0	120	0	120	3342	
☑ Beam	7	107	Steel Open Girder/Beam	43	1	0	30	12	42	3314	☑ Requested
Protective System		515	Steel Protective Coating	230	55	0	175	0	175	3342	
☑ Beam	8	107	Steel Open Girder/Beam	43	3	0	40	0	40	3314	☐ Requested
Protective System		515	Steel Protective Coating	230	130	0	100	0	100	3342	
☑ Bearing Device	1	316	Other Bearings	1	0	0	1	0	1	3334	☐ Requested
Protective System		515	Steel Protective Coating	1	0	0	1	0	1	3342	
☑ Bearing Device	1	316	Other Bearings	1	0	0	1	0	1	3334	☐ Requested
Protective System		515	Steel Protective Coating	1	0	0	1	0	1	3342	
☑ Bearing Device	2	316	Other Bearings	1	0	0	1	0	1	3334	☐ Requested
Protective System		515	Steel Protective Coating	1	0	0	1	0	1	3342	
☑ Bearing Device	2	316	Other Bearings	1	0	0	1	0	1	3334	☐ Requested
Protective System		515	Steel Protective Coating	1	0	0	1	0	1	3342	
☑ Bearing Device	3	316	Other Bearings	1	0	0	1	0	1	3334	☐ Requested
Protective System		515	Steel Protective Coating	1	0	0	1	0	1	3342	
☑ Bearing Device	3	316	Other Bearings	1	0	0	1	0	1	3334	☐ Requested

Structure Number: 980020 Inspection Date: 06/01/2015

Span Number 1

Element Location	Location Number	Element Number	Element Name	Total Quantity	Level 1 Quantity	Level 2 Quantity	Level 3 Quantity	Level 4 Quantity	Maint. Quantity	Maint. Code	Priority Maintenance
Protective System		515	Steel Protective Coating	1	0	0	1	0	1	3342	
☑ Bearing Device	4	316	Other Bearings	1	0	0	1	0	1	3334	☐ Requested
Protective System		515	Steel Protective Coating	1	0	0	1	0	1	3342	
☑ Bearing Device	4	316	Other Bearings	1	0	0	1	0	1	3334	☐ Requested
Protective System		515	Steel Protective Coating	1	0	0	1	0	1	3342	
☑ Bearing Device	5	316	Other Bearings	1	0	0	1	0	1	3334	☐ Requested
Protective System		515	Steel Protective Coating	1	0	0	1	0	1	3342	
☑ Bearing Device	5	316	Other Bearings	1	0	0	1	0	1	3334	☐ Requested
Protective System		515	Steel Protective Coating	1	0	0	1	0	1	3342	
☑ Bearing Device	6	316	Other Bearings	1	0	0	1	0	1	3334	☐ Requested
Protective System		515	Steel Protective Coating	1	0	0	1	0	1	3342	
☑ Bearing Device	6	316	Other Bearings	1	0	0	1	0	1	3334	☐ Requested
Protective System		515	Steel Protective Coating	1	0	0	1	0	1	3342	
☑ Bearing Device	7	316	Other Bearings	1	0	0	1	0	1	3334	☐ Requested
Protective System		515	Steel Protective Coating	1	0	0	1	0	1	3342	
☑ Bearing Device	7	316	Other Bearings	1	0	0	1	0	1	3334	☐ Requested
Protective System		515	Steel Protective Coating	1	0	0	1	0	1	3342	
☑ Bearing Device	8	316	Other Bearings	1	0	0	1	0	1	3334	☐ Requested
Protective System		515	Steel Protective Coating	1	0	0	1	0	1	3342	
☑ Bearing Device	8	316	Other Bearings	1	0	0	1	0	1	3334	☐ Requested
Protective System		515	Steel Protective Coating	1	0	0	1	0	1	3342	

Structure Number: 980020 Inspection Date: 06/01/2015

Span Number 2

Element Location	Location Number	Element Number	Element Name	Total Quantity	Level 1 Quantity	Level 2 Quantity	Level 3 Quantity	Level 4 Quantity	Maint. Quantity	Maint. Code	Priority Maintenance
☑ Deck	1	31	Timber Deck	909	829	0	80	0	80	3324	☐ Requested
☑ Bridge Rail	1	332	Timber Bridge Railing	46	7	0	39	0	39	3316	☐ Requested
☑ Bridge Rail	2	332	Timber Bridge Railing	46	4	2	38	2	42	3316	☐ Requested
☑ Wearing Surfaces		510	Wearing Surface	868	688	20	160	0	180	2816	☐ Requested
☑ Beam	1	107	Steel Open Girder/Beam	43	3	0	40	0	40	3314	☐ Requested
Protective System		515	Steel Protective Coating	230	70	0	160	0	160	3342	
☑ Beam	2	107	Steel Open Girder/Beam	43	7	0	30	6	36	3314	☑ Requested
Protective System		515	Steel Protective Coating	230	40	0	190	0	190	3342	
☑ Beam	3	107	Steel Open Girder/Beam	43	7	0	36	0	36	3314	☐ Requested
Protective System		515	Steel Protective Coating	230	100	0	130	0	130	3342	
☑ Beam	4	107	Steel Open Girder/Beam	43	11	0	32	0	32	3314	☐ Requested
Protective System		515	Steel Protective Coating	230	70	0	160	0	160	3342	
☑ Beam	5	107	Steel Open Girder/Beam	43	6	0	30	7	37	3314	☑ Requested
Protective System		515	Steel Protective Coating	230	80	0	150	0	150	3342	
☑ Beam	6	107	Steel Open Girder/Beam	43	8	0	35	0	35	3314	☐ Requested
Protective System		515	Steel Protective Coating	230	90	0	140	0	140	3342	
☑ Beam	7	107	Steel Open Girder/Beam	43	7	0	36	0	36	3314	☐ Requested
Protective System		515	Steel Protective Coating	230	70	0	160	0	160	3342	
☑ Beam	8	107	Steel Open Girder/Beam	43	18	0	25	0	25	3314	☐ Requested
Protective System		515	Steel Protective Coating	230	90	0	140	0	140	3342	
☑ Bearing Device	1	316	Other Bearings	1	0	0	1	0	1	3334	☐ Requested
Protective System		515	Steel Protective Coating	1	0	0	1	0	1	3342	
☑ Bearing Device	1	316	Other Bearings	1	0	0	1	0	1	3334	☐ Requested
Protective System		515	Steel Protective Coating	1	0	0	1	0	1	3342	
☑ Bearing Device	2	316	Other Bearings	1	0	0	1	0	1	3334	☐ Requested
Protective System		515	Steel Protective Coating	1	0	0	1	0	1	3342	
☑ Bearing Device	2	316	Other Bearings	1	0	0	1	0	1	3334	☐ Requested
Protective System		515	Steel Protective Coating	1	0	0	1	0	1	3342	
☑ Bearing Device	3	316	Other Bearings	1	0	0	1	0	1	3334	☐ Requested
Protective System		515	Steel Protective Coating	1	0	0	1	0	1	3342	
☑ Bearing Device	3	316	Other Bearings	1	0	0	1	0	1	3334	☐ Requested

Structure Number: 980020 Inspection Date: 06/01/2015

Span Number 2

Element Location	Location Number	Element Number	Element Name	Total Quantity	Level 1 Quantity	Level 2 Quantity	Level 3 Quantity	Level 4 Quantity	Maint. Quantity	Maint. Code	Priority Maintenance
Protective System		515	Steel Protective Coating	1	0	0	1	0	1	3342	
☑ Bearing Device	4	316	Other Bearings	1	0	0	1	0	1	3334	☐ Requested
Protective System		515	Steel Protective Coating	1	0	0	1	0	1	3342	
☑ Bearing Device	4	316	Other Bearings	1	0	0	1	0	1	3334	☐ Requested
Protective System		515	Steel Protective Coating	1	0	0	1	0	1	3342	
☑ Bearing Device	5	316	Other Bearings	1	0	0	1	0	1	3334	☐ Requested
Protective System		515	Steel Protective Coating	1	0	0	1	0	1	3342	
☑ Bearing Device	5	316	Other Bearings	1	0	0	1	0	1	3334	☐ Requested
Protective System		515	Steel Protective Coating	1	0	0	1	0	1	3342	
☑ Bearing Device	6	316	Other Bearings	1	0	0	1	0	1	3334	☐ Requested
Protective System		515	Steel Protective Coating	1	0	0	1	0	1	3342	
☑ Bearing Device	6	316	Other Bearings	1	0	0	1	0	1	3334	☐ Requested
Protective System		515	Steel Protective Coating	1	0	0	1	0	1	3342	
☑ Bearing Device	7	316	Other Bearings	1	0	0	1	0	1	3334	☐ Requested
Protective System		515	Steel Protective Coating	1	0	0	1	0	1	3342	
☑ Bearing Device	7	316	Other Bearings	1	0	0	1	0	1	3334	☐ Requested
Protective System		515	Steel Protective Coating	1	0	0	1	0	1	3342	
☑ Bearing Device	8	316	Other Bearings	1	0	0	1	0	1	3334	☐ Requested
Protective System		515	Steel Protective Coating	1	0	0	1	0	1	3342	
☑ Bearing Device	8	316	Other Bearings	1	0	0	1	0	1	3334	☐ Requested
Protective System		515	Steel Protective Coating	1	0	0	1	0	1	3342	

Superstructure Element Defect Descriptions

Structure Number: 980020 Inspection Date: 06/01/2015

Span Number 1

Span 1	Deck	1	Component Name:	Timber Deck

Element: 31 Name Timber Deck Qty: 909 Lvl 2: 0 Lvl 3 75 Lvl 4 0 Maint. Qty 75

Defect Description:

75 Square Feet of Crack (Timber): Identified crack that is not arrested but does not require structural review. 0.0313 inch wide longitudinal cracking.

Span 1	Bridge Rail	1	Component Name:	Timber Rail

Element: 332 Name Timber Bridge Railing Qty: 46 Lvl 2: 7 Lvl 3 35 Lvl 4 0 Maint. Qty 42

Defect Description:

6 Feet of Decay/Section Loss: Affect less than 10% of the member section. Decay in wheel guard, top and inside face at midspan, 3" wide x 1" deep.

20 Feet of Crack (Timber): Identified crack that is not arrested but does not require structural review. 0.0625 inch wide longitudinal cracking in wheel guard.

15 Feet of Crack (Timber): Identified crack that is not arrested but does not require structural review. 0.0313 inch wide longitudinal cracking in rail boards.

1 Feet of Decay/Section Loss: Affect less than 10% of the member section. Area of decay in second rail post, 4" x 2" x 2", with ant infestation.

Span 1	Bridge Rail	2	Component Name:	Timber Rail

Element: 332 Name Timber Bridge Railing Qty: 46 Lvl 2: 0 Lvl 3 42 Lvl 4 0 Maint. Qty 42

Defect Description:

20 Feet of Crack (Timber): Identified crack that is not arrested but does not require structural review. 0.0313 inch wide longitudinal cracking in rail boards.

22 Feet of Crack (Timber): Identified crack that is not arrested but does not require structural review. 0.0625 inch wide longitudinal cracking in wheel guard.

Span 1	Wearing Surfaces		Component Name:	Asphalt Wearing Surface

Element: 510 Name Wearing Surface Qty: 868 Lvl 2: 0 Lvl 3 90 Lvl 4 0 Maint. Qty 90

Defect Description:

90 Square Feet of Crack (Wearing Surface): Width of more than 0.05 in. or spacing of less than 1.0 ft. 0.0625 inch wide transverse cracking.

Span 1	Beam	1	Component Name:	Plate Girder



Element: 107 Name Steel Open Girder/Beam Qty: 43 Lvl 2: 0 Lvl 3 20 Lvl 4 1 Maint. Qty 21

Defect Description:

20 Feet of Corrosion: Section loss is evident or pack rust is present but does not warrant structural review. 0.0313 inch section loss, top flange.

1 Feet of Corrosion: The condition warrants a structural review to determine the effect on strength or serviceability of the element or bridge; OR a structural review has been completed and the defects impact strength or serviceability of the element or bridge. 0.125 inch section loss, bottom right flange, 8 feet from end bent 1.

125 Square Feet of Peeling/Bubbling/Cracking (steel Protective Coatings): Finish and primer coats.

Span 1	Beam	2	Component Name:	Plate Girder



Element: 107 Name Steel Open Girder/Beam Qty: 43 Lvl 2: 0 Lvl 3 20 Lvl 4 22 Maint. Qty 42

Defect Description:

20 Feet of Corrosion: Section loss is evident or pack rust is present but does not warrant structural review. 0.0313 inch section loss, top flange, bottom flange, and web.

22 Feet of Corrosion: The condition warrants a structural review to determine the effect on strength or serviceability of the

element or bridge; OR a structural review has been completed and the defects impact strength or serviceability of the element or bridge. 0.125 inch section loss, top and bottom flange, starting at end bent 1 cap.

180 Square Feet of Peeling/Bubbling/Cracking (steel Protective Coatings): Finish and primer coats.

Span 1 Beam 3 Component Name: Plate Girder

Element: 107 Name Steel Open Girder/Beam Qty: 43 Lvl 2: 0 Lvl 3 30 Lvl 4 11 Maint. Qty 41

Defect Description:

30 Feet of Corrosion: Section loss is evident or pack rust is present but does not warrant structural review. 0.0313 inch section loss, top flange, bottom flange and web.

11 Feet of Corrosion: The condition warrants a structural review to determine the effect on strength or serviceability of the element or bridge; OR a structural review has been completed and the defects impact strength or serviceability of the element or bridge. 0.0625 inch section loss, bottom flange, starting at end bent 1 cap.

140 Square Feet of Peeling/Bubbling/Cracking (steel Protective Coatings): Finish and primer coats.

Span 1 Beam 4 Component Name: Plate Girder

Element: 107 Name Steel Open Girder/Beam Qty: 43 Lvl 2: 0 Lvl 3 25 Lvl 4 15 Maint. Qty 40

Defect Description:

25 Feet of Corrosion: Section loss is evident or pack rust is present but does not warrant structural review. 0.0313 inch section loss in top flange, bottom flange and web.

15 Feet of Corrosion: The condition warrants a structural review to determine the effect on strength or serviceability of the element or bridge; OR a structural review has been completed and the defects impact strength or serviceability of the element or bridge. 0.125 inch section loss, bottom flange, starting at end bent 1.

140 Square Feet of Peeling/Bubbling/Cracking (steel Protective Coatings): Finish and primer coats.

Span 1 Beam 5 Component Name: Plate Girder

Element: 107 Name Steel Open Girder/Beam Qty: 43 Lvl 2: 0 Lvl 3 25 Lvl 4 16 Maint. Qty 41

Defect Description:

25 Feet of Corrosion: Section loss is evident or pack rust is present but does not warrant structural review. 0.0313 inch section loss, top flange, bottom flange and web.

16 Feet of Corrosion: The condition warrants a structural review to determine the effect on strength or serviceability of the element or bridge; OR a structural review has been completed and the defects impact strength or serviceability of the element or bridge. 0.125 inch section loss, bottom flange, starting at end bent 1.

160 Square Feet of Peeling/Bubbling/Cracking (steel Protective Coatings): Finish and primer coats.

Span 1 Beam 6 Component Name: Plate Girder

Element: 107 Name Steel Open Girder/Beam Qty: 43 Lvl 2: 0 Lvl 3 25 Lvl 4 8 Maint. Qty 33

Defect Description:

25 Feet of Corrosion: Section loss is evident or pack rust is present but does not warrant structural review. 0.0313 inch section loss, top flange, bottom flange and web.

8 Feet of Corrosion: The condition warrants a structural review to determine the effect on strength or serviceability of the element or bridge; OR a structural review has been completed and the defects impact strength or serviceability of the element or bridge. 0.125 inch section loss, bottom flange, starting at end bent 1.

120 Square Feet of Peeling/Bubbling/Cracking (steel Protective Coatings): Finish and primer coats.

Span 1 Beam 7 Component Name: Plate Girder

Element: 107 Name Steel Open Girder/Beam Qty: 43 Lvl 2: 0 Lvl 3 30 Lvl 4 12 Maint. Qty 42

Defect Description:

30 Feet of Corrosion: Section loss is evident or pack rust is present but does not warrant structural review. 0.0313 inch section loss, top flange, bottom flange, and web.

12 Feet of Corrosion: The condition warrants a structural review to determine the effect on strength or serviceability of the element or bridge; OR a structural review has been completed and the defects impact strength or serviceability of the element

or bridge. 0.125 inch section loss, bottom flange, starting at end bent 1.

175 Square Feet of Peeling/Bubbling/Cracking (steel Protective Coatings): Finish and primer coats.

Span 1 Beam 8 Component Name: Plate Girder

Element: 107 Name Steel Open Girder/Beam Qty: 43 Lvl 2: 0 Lvl 3 40 Lvl 4 0 Maint. Qty 40
Defect Description:

40 Feet of Corrosion: Section loss is evident or pack rust is present but does not warrant structural review. 0.0313 inch section loss, top flange, bottom flange, and web.

100 Square Feet of Peeling/Bubbling/Cracking (steel Protective Coatings): Finish and primer coats.

Span 1 Bearing Device 1 Component Name: Other Bearing

Element: 316 Name Other Bearings Qty: 1 Lvl 2: 0 Lvl 3 1 Lvl 4 0 Maint. Qty 1
Defect Description:

1 Each of Corrosion: Section loss is evident or pack rust is present but does not warrant structural review. 0.0313 inch section loss.

1 Square Feet of Peeling/Bubbling/Cracking (steel Protective Coatings): Finish and primer coats.

Span 1 Bearing Device 1 Component Name: Other Bearing

Element: 316 Name Other Bearings Qty: 1 Lvl 2: 0 Lvl 3 1 Lvl 4 0 Maint. Qty 1
Defect Description:

1 Each of Corrosion: Section loss is evident or pack rust is present but does not warrant structural review. 0.0313 inch section loss.

1 Square Feet of Peeling/Bubbling/Cracking (steel Protective Coatings): Finish and primer coats.

Span 1 Bearing Device 2 Component Name: Other Bearing

Element: 316 Name Other Bearings Qty: 1 Lvl 2: 0 Lvl 3 1 Lvl 4 0 Maint. Qty 1
Defect Description:

1 Each of Corrosion: Section loss is evident or pack rust is present but does not warrant structural review. 0.0313 inch section loss.

1 Square Feet of Peeling/Bubbling/Cracking (steel Protective Coatings): Finish and primer coats.

Span 1 Bearing Device 2 Component Name: Other Bearing

Element: 316 Name Other Bearings Qty: 1 Lvl 2: 0 Lvl 3 1 Lvl 4 0 Maint. Qty 1
Defect Description:

1 Each of Corrosion: Section loss is evident or pack rust is present but does not warrant structural review. 0.0313 inch section loss.

1 Square Feet of Peeling/Bubbling/Cracking (steel Protective Coatings): Finish and primer coats.

Span 1 Bearing Device 3 Component Name: Other Bearing

Element: 316 Name Other Bearings Qty: 1 Lvl 2: 0 Lvl 3 1 Lvl 4 0 Maint. Qty 1
Defect Description:

1 Each of Corrosion: Section loss is evident or pack rust is present but does not warrant structural review. 0.0313 inch section loss.

1 Square Feet of Peeling/Bubbling/Cracking (steel Protective Coatings): Finish and primer coats.

Span 1 Bearing Device 3 Component Name: Other Bearing

Element: 316 Name Other Bearings Qty: 1 Lvl 2: 0 Lvl 3 1 Lvl 4 0 Maint. Qty 1
Defect Description:

1 Each of Corrosion: Section loss is evident or pack rust is present but does not warrant structural review. 0.0313 inch section loss.

1 Square Feet of Peeling/Bubbling/Cracking (steel Protective Coatings): Finish and primer coats.

Span 1 Bearing Device 4 Component Name: Other Bearing

Element: 316 Name Other Bearings Qty: 1 Lvl 2: 0 Lvl 3 1 Lvl 4 0 Maint. Qty 1

Defect Description:

1 Each of Corrosion: Section loss is evident or pack rust is present but does not warrant structural review. 0.0313 inch section loss.

1 Square Feet of Peeling/Bubbling/Cracking (steel Protective Coatings): Finish and primer coats.

Span 1 Bearing Device 4 Component Name: Other Bearing

Element: 316 Name Other Bearings Qty: 1 Lvl 2: 0 Lvl 3 1 Lvl 4 0 Maint. Qty 1

Defect Description:

1 Each of Corrosion: Section loss is evident or pack rust is present but does not warrant structural review. 0.0313 inch section loss.

1 Square Feet of Peeling/Bubbling/Cracking (steel Protective Coatings): Finish and primer coats.

Span 1 Bearing Device 5 Component Name: Other Bearing

Element: 316 Name Other Bearings Qty: 1 Lvl 2: 0 Lvl 3 1 Lvl 4 0 Maint. Qty 1

Defect Description:

1 Each of Corrosion: Section loss is evident or pack rust is present but does not warrant structural review. 0.0313 inch section loss.

1 Square Feet of Peeling/Bubbling/Cracking (steel Protective Coatings): Finish and primer coats.

Span 1 Bearing Device 5 Component Name: Other Bearing

Element: 316 Name Other Bearings Qty: 1 Lvl 2: 0 Lvl 3 1 Lvl 4 0 Maint. Qty 1

Defect Description:

1 Each of Corrosion: Section loss is evident or pack rust is present but does not warrant structural review. 0.0313 inch section loss.

1 Square Feet of Peeling/Bubbling/Cracking (steel Protective Coatings): Finish and primer coats.

Span 1 Bearing Device 6 Component Name: Other Bearing

Element: 316 Name Other Bearings Qty: 1 Lvl 2: 0 Lvl 3 1 Lvl 4 0 Maint. Qty 1

Defect Description:

1 Each of Corrosion: Section loss is evident or pack rust is present but does not warrant structural review. 0.0313 inch section loss.

1 Square Feet of Peeling/Bubbling/Cracking (steel Protective Coatings): Finish and primer coats.

Span 1 Bearing Device 6 Component Name: Other Bearing

Element: 316 Name Other Bearings Qty: 1 Lvl 2: 0 Lvl 3 1 Lvl 4 0 Maint. Qty 1

Defect Description:

1 Each of Corrosion: Section loss is evident or pack rust is present but does not warrant structural review. 0.0313 inch section loss.

1 Square Feet of Peeling/Bubbling/Cracking (steel Protective Coatings): Finish and primer coats.

Span 1 Bearing Device 7 Component Name: Other Bearing

Element: 316 Name Other Bearings Qty: 1 Lvl 2: 0 Lvl 3 1 Lvl 4 0 Maint. Qty 1

Defect Description:

1 Each of Corrosion: Section loss is evident or pack rust is present but does not warrant structural review. 0.0313 inch section loss.

1 Square Feet of Peeling/Bubbling/Cracking (steel Protective Coatings): Finish and primer coats.

Span 1	Bearing Device	7	Component Name:	Other Bearing

Element: 316 Name Other Bearings Qty: 1 Lvl 2: 0 Lvl 3 1 Lvl 4 0 Maint. Qty 1

Defect Description:

1 Each of Corrosion: Section loss is evident or pack rust is present but does not warrant structural review. 0.0313 inch section loss.

1 Square Feet of Peeling/Bubbling/Cracking (steel Protective Coatings): Finish and primer coats.

Span 1	Bearing Device	8	Component Name:	Other Bearing

Element: 316 Name Other Bearings Qty: 1 Lvl 2: 0 Lvl 3 1 Lvl 4 0 Maint. Qty 1

Defect Description:

1 Each of Corrosion: Section loss is evident or pack rust is present but does not warrant structural review. 0.0313 inch section loss.

1 Square Feet of Peeling/Bubbling/Cracking (steel Protective Coatings): Finish and primer coats.

Span 1	Bearing Device	8	Component Name:	Other Bearing

Element: 316 Name Other Bearings Qty: 1 Lvl 2: 0 Lvl 3 1 Lvl 4 0 Maint. Qty 1

Defect Description:

1 Each of Corrosion: Section loss is evident or pack rust is present but does not warrant structural review. 0.0313 inch section loss.

1 Square Feet of Peeling/Bubbling/Cracking (steel Protective Coatings): Finish and primer coats.

Span Number 2

Span 2	Deck	1	Component Name:	Timber Deck

Element: 31 Name Timber Deck Qty: 909 Lvl 2: 0 Lvl 3 80 Lvl 4 0 Maint. Qty 80

Defect Description:

80 Square Feet of Crack (Timber): Identified crack that is not arrested but does not require structural review. 0.0313 inch wide longitudinal cracking in bottom of deck.

Span 2	Bridge Rail	1	Component Name:	Timber Rail

Element: 332 Name Timber Bridge Railing Qty: 46 Lvl 2: 0 Lvl 3 39 Lvl 4 0 Maint. Qty 39

Defect Description:

19 Feet of Crack (Timber): Identified crack that is not arrested but does not require structural review. 0.0313 inch wide longitudinal cracking in rail boards.

20 Feet of Crack (Timber): Identified crack that is not arrested but does not require structural review. 0.0625 inch wide longitudinal cracking in wheel guard.

Span 2	Bridge Rail	2	Component Name:	Timber Rail

Element: 332 Name Timber Bridge Railing Qty: 46 Lvl 2: 2 Lvl 3 38 Lvl 4 2 Maint. Qty 42

Defect Description:

2 Feet of Decay/Section Loss: Affect less than 10% of the member section. Decay in bottom of rail post, 24" x 4" x 2" deep, 6 feet from end bent 2.

18 Feet of Crack (Timber): Identified crack that is not arrested but does not require structural review. 0.0313 inch wide longitudinal cracking in rail boards.

20 Feet of Crack (Timber): Identified crack that is not arrested but does not require structural review. 0.0625 inch wide longitudinal cracking in wheel guard.

2 Feet of Decay/Section Loss: The condition warrants a structural review to determine the effect on strength or serviceability of the element or bridge; OR a structural review has been completed and the defects impact strength or serviceability of the element or bridge. Spacer block for rail post located 6 feet from end bent 2, completely decayed and missing.

Span 2 Wearing Surfaces Component Name: Asphalt Wearing Surface

Element: 510 Name Wearing Surface Qty: 868 Lvl 2: 20 Lvl 3 160 Lvl 4 0 Maint. Qty 180

Defect Description:

160 Square Feet of Crack (Wearing Surface): Width of more than 0.05 in. or spacing of less than 1.0 ft. 0.0625 inch wide transverse cracking.

20 Square Feet of Delamination/Spall/Patched Area/Pothole (Wearing Surfaces): Delaminated. Spall less than 1 in. deep or less than 6 in. diameter. Patched area that is sound. Partial depth pothole. 2 patched areas at end bent 2, 4' x 2.5'.

Span 2 Beam 1 Component Name: Plate Girder

Element: 107 Name Steel Open Girder/Beam Qty: 43 Lvl 2: 0 Lvl 3 40 Lvl 4 0 Maint. Qty 40

Defect Description:

40 Feet of Corrosion: Section loss is evident or pack rust is present but does not warrant structural review. 0.0313 inch section loss, top flange, bottom flange, and web.

160 Square Feet of Peeling/Bubbling/Cracking (steel Protective Coatings): Finish and primer coats.

Span 2 Beam 2 Component Name: Plate Girder



Element: 107 Name Steel Open Girder/Beam Qty: 43 Lvl 2: 0 Lvl 3 30 Lvl 4 6 Maint. Qty 36

Defect Description:

30 Feet of Corrosion: Section loss is evident or pack rust is present but does not warrant structural review. 0.0313 inch section loss, top flange, bottom flange, and web.

6 Feet of Corrosion: The condition warrants a structural review to determine the effect on strength or serviceability of the element or bridge; OR a structural review has been completed and the defects impact strength or serviceability of the element or bridge. 0.0625 inch section loss, bottom flange, starting 7 feet from end bent 2.

190 Square Feet of Peeling/Bubbling/Cracking (steel Protective Coatings): Finish and primer coats.

Span 2 Beam 3 Component Name: Plate Girder

Element: 107 Name Steel Open Girder/Beam Qty: 43 Lvl 2: 0 Lvl 3 36 Lvl 4 0 Maint. Qty 36

Defect Description:

36 Feet of Corrosion: Section loss is evident or pack rust is present but does not warrant structural review. 0.0313 inch section loss, bottom flange, top flange, and web.

130 Square Feet of Peeling/Bubbling/Cracking (steel Protective Coatings): Finish and primer coats.

Span 2 Beam 4 Component Name: Plate Girder

Element: 107 Name Steel Open Girder/Beam Qty: 43 Lvl 2: 0 Lvl 3 32 Lvl 4 0 Maint. Qty 32

Defect Description:

32 Feet of Corrosion: Section loss is evident or pack rust is present but does not warrant structural review. 0.0313 inch section loss in top flange, bottom flange and web.

160 Square Feet of Peeling/Bubbling/Cracking (steel Protective Coatings): Finish and primer coats.

Span 2 Beam 5 Component Name: Plate Girder



Element: 107 Name Steel Open Girder/Beam Qty: 43 Lvl 2: 0 Lvl 3 30 Lvl 4 7 Maint. Qty 37

Defect Description:

30 Feet of Corrosion: Section loss is evident or pack rust is present but does not warrant structural review. 0.0313 inch section loss, top flange, bottom flange and web.

7 Feet of Corrosion: The condition warrants a structural review to determine the effect on strength or serviceability of the element or bridge; OR a structural review has been completed and the defects impact strength or serviceability of the element or bridge. 0.0625 inch section loss, bottom flange, starting 12 feet from end bent 2.

150 Square Feet of Peeling/Bubbling/Cracking (steel Protective Coatings): Finish and primer coats.

Span 2 Beam 6 Component Name: Plate Girder

Element: 107 Name Steel Open Girder/Beam Qty: 43 Lvl 2: 0 Lvl 3 35 Lvl 4 0 Maint. Qty 35

Defect Description:

35 Feet of Corrosion: Section loss is evident or pack rust is present but does not warrant structural review. 0.0313 inch section loss, top flange, bottom flange and web.

140 Square Feet of Peeling/Bubbling/Cracking (steel Protective Coatings): Finish and primer coats.

Span 2 Beam 7 Component Name: Plate Girder

Element: 107 Name Steel Open Girder/Beam Qty: 43 Lvl 2: 0 Lvl 3 36 Lvl 4 0 Maint. Qty 36

Defect Description:

36 Feet of Corrosion: Section loss is evident or pack rust is present but does not warrant structural review. 0.0313 inch section loss, top flange, bottom flange and web.

160 Square Feet of Peeling/Bubbling/Cracking (steel Protective Coatings): Finish and primer coats.

Span 2 Beam 8 Component Name: Plate Girder

Element: 107 Name Steel Open Girder/Beam Qty: 43 Lvl 2: 0 Lvl 3 25 Lvl 4 0 Maint. Qty 25

Defect Description:

25 Feet of Corrosion: Section loss is evident or pack rust is present but does not warrant structural review. 0.0313 inch section loss, top flange, bottom flange and web.

140 Square Feet of Peeling/Bubbling/Cracking (steel Protective Coatings): Finish and primer coats.

Span 2 Bearing Device 1 Component Name: Other Bearing

Element: 316 Name Other Bearings Qty: 1 Lvl 2: 0 Lvl 3 1 Lvl 4 0 Maint. Qty 1

Defect Description:

1 Each of Corrosion: Section loss is evident or pack rust is present but does not warrant structural review. 0.0313 inch section loss.

1 Square Feet of Peeling/Bubbling/Cracking (steel Protective Coatings): Finish and primer coats.

Span 2 Bearing Device 1 Component Name: Other Bearing

Element: 316 Name Other Bearings Qty: 1 Lvl 2: 0 Lvl 3 1 Lvl 4 0 Maint. Qty 1

Defect Description:

1 Each of Corrosion: Section loss is evident or pack rust is present but does not warrant structural review. 0.0313 inch section loss.

1 Square Feet of Peeling/Bubbling/Cracking (steel Protective Coatings): Finish and primer coats.

Span 2 Bearing Device 2 Component Name: Other Bearing

Element: 316 Name Other Bearings Qty: 1 Lvl 2: 0 Lvl 3 1 Lvl 4 0 Maint. Qty 1

Defect Description:

1 Each of Corrosion: Section loss is evident or pack rust is present but does not warrant structural review. 0.0313 inch section loss.

1 Square Feet of Peeling/Bubbling/Cracking (steel Protective Coatings): Finish and primer coats.

Span 2 Bearing Device 2 Component Name: Other Bearing

Element: 316 Name Other Bearings Qty: 1 Lvl 2: 0 Lvl 3 1 Lvl 4 0 Maint. Qty 1

Defect Description:

1 Each of Corrosion: Section loss is evident or pack rust is present but does not warrant structural review. 0.0313 inch section loss.

1 Square Feet of Peeling/Bubbling/Cracking (steel Protective Coatings): Finish and primer coats.

Span 2 Bearing Device 3 Component Name: Other Bearing

Element: 316 Name Other Bearings Qty: 1 Lvl 2: 0 Lvl 3 1 Lvl 4 0 Maint. Qty 1

Defect Description:

1 Each of Corrosion: Section loss is evident or pack rust is present but does not warrant structural review. 0.0313 inch section loss.

1 Square Feet of Peeling/Bubbling/Cracking (steel Protective Coatings): Finish and primer coats.

Span 2 Bearing Device 3 Component Name: Other Bearing

Element: 316 Name Other Bearings Qty: 1 Lvl 2: 0 Lvl 3 1 Lvl 4 0 Maint. Qty 1

Defect Description:

1 Each of Corrosion: Section loss is evident or pack rust is present but does not warrant structural review. 0.0313 inch section loss.

1 Square Feet of Peeling/Bubbling/Cracking (steel Protective Coatings): Finish and primer coats.

Span 2 Bearing Device 4 Component Name: Other Bearing

Element: 316 Name Other Bearings Qty: 1 Lvl 2: 0 Lvl 3 1 Lvl 4 0 Maint. Qty 1

Defect Description:

1 Each of Corrosion: Section loss is evident or pack rust is present but does not warrant structural review. 0.0313 inch section loss.

1 Square Feet of Peeling/Bubbling/Cracking (steel Protective Coatings): Finish and primer coats.

Span 2 Bearing Device 4 Component Name: Other Bearing

Element: 316 Name Other Bearings Qty: 1 Lvl 2: 0 Lvl 3 1 Lvl 4 0 Maint. Qty 1

Defect Description:

1 Each of Corrosion: Section loss is evident or pack rust is present but does not warrant structural review. 0.0313 inch section loss.

1 Square Feet of Peeling/Bubbling/Cracking (steel Protective Coatings): Finish and primer coats.

Span 2 Bearing Device 5 Component Name: Other Bearing

Element: 316 Name Other Bearings Qty: 1 Lvl 2: 0 Lvl 3 1 Lvl 4 0 Maint. Qty 1

Defect Description:

1 Each of Corrosion: Section loss is evident or pack rust is present but does not warrant structural review. 0.0313 inch section loss.

1 Square Feet of Peeling/Bubbling/Cracking (steel Protective Coatings): Finish and primer coats.

Span 2 Bearing Device 5 Component Name: Other Bearing

Element: 316 Name Other Bearings Qty: 1 Lvl 2: 0 Lvl 3 1 Lvl 4 0 Maint. Qty 1

Defect Description:

1 Each of Corrosion: Section loss is evident or pack rust is present but does not warrant structural review. 0.0313 inch section loss.

1 Square Feet of Peeling/Bubbling/Cracking (steel Protective Coatings): Finish and primer coats.

Span 2 Bearing Device 6 Component Name: Other Bearing

Element: 316 Name Other Bearings Qty: 1 Lvl 2: 0 Lvl 3 1 Lvl 4 0 Maint. Qty 1

Defect Description:

1 Each of Corrosion: Section loss is evident or pack rust is present but does not warrant structural review. 0.0313 inch section loss.

1 Square Feet of Peeling/Bubbling/Cracking (steel Protective Coatings): Finish and primer coats.

Span 2 Bearing Device 6 Component Name: Other Bearing

Element: 316 Name Other Bearings Qty: 1 Lvl 2: 0 Lvl 3 1 Lvl 4 0 Maint. Qty 1

Defect Description:

1 Each of Corrosion: Section loss is evident or pack rust is present but does not warrant structural review. 0.0313 inch section loss.

1 Square Feet of Peeling/Bubbling/Cracking (steel Protective Coatings): Finish and primer coats.

Span 2 Bearing Device 7 Component Name: Other Bearing

Element: 316 Name Other Bearings Qty: 1 Lvl 2: 0 Lvl 3 1 Lvl 4 0 Maint. Qty 1

Defect Description:

1 Each of Corrosion: Section loss is evident or pack rust is present but does not warrant structural review. 0.0313 inch section loss.

1 Square Feet of Peeling/Bubbling/Cracking (steel Protective Coatings): Finish and primer coats.

Span 2 Bearing Device 7 Component Name: Other Bearing

Element: 316 Name Other Bearings Qty: 1 Lvl 2: 0 Lvl 3 1 Lvl 4 0 Maint. Qty 1

Defect Description:

1 Each of Corrosion: Section loss is evident or pack rust is present but does not warrant structural review. 0.0313 inch section loss.

1 Square Feet of Peeling/Bubbling/Cracking (steel Protective Coatings): Finish and primer coats.

Span 2 Bearing Device 8 Component Name: Other Bearing

Element: 316 Name Other Bearings Qty: 1 Lvl 2: 0 Lvl 3 1 Lvl 4 0 Maint. Qty 1

Defect Description:

1 Each of Corrosion: Section loss is evident or pack rust is present but does not warrant structural review. 0.0313 inch section loss.

1 Square Feet of Peeling/Bubbling/Cracking (steel Protective Coatings): Finish and primer coats.

Span 2 Bearing Device 8 Component Name: Other Bearing

Element: 316 Name Other Bearings Qty: 1 Lvl 2: 0 Lvl 3 1 Lvl 4 0 Maint. Qty 1

Defect Description:

1 Each of Corrosion: Section loss is evident or pack rust is present but does not warrant structural review. 0.0313 inch section loss.

1 Square Feet of Peeling/Bubbling/Cracking (steel Protective Coatings): Finish and primer coats.

Substructure Detailed Element Quantites

Structure Number: 980020 Inspection Date: 06/01/2015

End Bent 1

Element Location	Location Number	Element Number	Element Name	Total Quantity	Level 1 Quantity	Level 2 Quantity	Level 3 Quantity	Level 4 Quantity	Maint. Quantity	Maint. Code	Priority Maintenance
☑ Abutments	1	216	Timber Abutment	25	7	2	16	0	18	3346	☐ Requested
☑ Caps	1	235	Timber Pier Cap	20	0	0	20	0	20	3344	☐ Requested
☑ Piles and Columns	1	228	Timber Pile	1	0	0	1	0	2	3344	☐ Requested
☑ Piles and Columns	2	228	Timber Pile	1	0	0	1	0	2	3344	☐ Requested
☑ Piles and Columns	3	228	Timber Pile	1	0	0	1	0	1	3344	☐ Requested
☑ Piles and Columns	4	228	Timber Pile	1	0	0	1	0	2	3344	☐ Requested

Bent 1

Element Location	Location Number	Element Number	Element Name	Total Quantity	Level 1 Quantity	Level 2 Quantity	Level 3 Quantity	Level 4 Quantity	Maint. Quantity	Maint. Code	Priority Maintenance
☑ Caps	1	235	Timber Pier Cap	20	7	0	13	0	13	3344	☐ Requested
☑ Piles and Columns	1	228	Timber Pile	1	0	0	0	1	8	3344	☐ Requested
☑ Piles and Columns	2	228	Timber Pile	1	0	0	1	0	8	3344	☐ Requested
☑ Piles and Columns	3	228	Timber Pile	1	0	0	1	0	12	3344	☐ Requested
☑ Piles and Columns	4	228	Timber Pile	1	0	0	1	0	14	3344	☑ Requested
☑ Piles and Columns	5	228	Timber Pile	1	0	0	1	0	8	3344	☐ Requested
☑ Piles and Columns	6	228	Timber Pile	1	0	0	0	1	4	3344	☐ Requested

End Bent 2

Element Location	Location Number	Element Number	Element Name	Total Quantity	Level 1 Quantity	Level 2 Quantity	Level 3 Quantity	Level 4 Quantity	Maint. Quantity	Maint. Code	Priority Maintenance
☑ Abutments	1	216	Timber Abutment	25	13	2	10	0	12	3346	☐ Requested
☑ Caps	1	235	Timber Pier Cap	20	4	0	16	0	16	3344	☐ Requested
☑ Piles and Columns	1	228	Timber Pile	1	0	0	1	0	6	3344	☐ Requested
☑ Piles and Columns	2	228	Timber Pile	1	0	0	1	0	8	3344	☐ Requested
☑ Piles and Columns	3	228	Timber Pile	1	0	0	1	0	5	3344	☐ Requested
☑ Piles and Columns	4	228	Timber Pile	1	0	0	1	0	2	3344	☐ Requested

Substructure Element Defect Descriptions

Structure Number: 980020 Inspection Date: 06/01/2015

End Bent 1

End Bent 1	Row 1	Abutments	1

Element: 216 Name Timber Abutment Qty: 25 Lvl 2: 2 Lvl 3 16 Lvl 4 0 Maint. Qty 18
Defect Description:

15 Feet of Crack (Timber): Identified crack that is not arrested but does not require structural review. 0.0313 inch wide longitudinal cracking.

2 Feet of Decay/Section Loss: Affects less than 10% of the member section Area of decay between pile 2 and 3, 2" x 20" x 2" deep.

1 Feet of Decay/Section Loss: Affects 10% or more of the member but does not warrant structural review. Abutment 1 timber pile at left side, has decay 5 inches deep at groundline.

End Bent 1	Row 1	Caps	1

Element: 235 Name Timber Pier Cap Qty: 20 Lvl 2: 0 Lvl 3 20 Lvl 4 0 Maint. Qty 20
Defect Description:

18 Feet of Crack (Timber): Identified crack that is not arrested but does not require structural review. 8 feet of 0.0625 inch wide longitudinal cracking and 10 feet of 0.0313 inch wide longitudinal cracking.

2 Feet of Crack (Timber): Identified crack that is not arrested but does not require structural review. Sub-cap at pile 3, has 2 feet of .0625 in. wide longitudinal cracking.

End Bent 1	Row 1	Piles and Columns	1

Element: 228 Name Timber Pile Qty: 1 Lvl 2: 0 Lvl 3 1 Lvl 4 0 Maint. Qty 2
Defect Description:

1 Each of Crack (Timber): Identified crack that is not arrested but does not require structural review. 2 feet of 0.0313 inch wide longitudinal cracking.

End Bent 1	Row 1	Piles and Columns	2

Element: 228 Name Timber Pile Qty: 1 Lvl 2: 0 Lvl 3 1 Lvl 4 0 Maint. Qty 2
Defect Description:

1 Each of Crack (Timber): Identified crack that is not arrested but does not require structural review. 2 feet of 0.125 inch wide longitudinal cracking and 3 feet of 0.0313 inch wide longitudinal cracking.

End Bent 1	Row 1	Piles and Columns	3

Element: 228 Name Timber Pile Qty: 1 Lvl 2: 0 Lvl 3 1 Lvl 4 0 Maint. Qty 1
Defect Description:

1 Each of Crack (Timber): Identified crack that is not arrested but does not require structural review. 1 foot of 0.0313 inch wide longitudinal cracking.

End Bent 1	Row 1	Piles and Columns	4

Element: 228 Name Timber Pile Qty: 1 Lvl 2: 0 Lvl 3 1 Lvl 4 0 Maint. Qty 2
Defect Description:

1 Each of Crack (Timber): Identified crack that is not arrested but does not require structural review. 2 feet of 0.0625 inch wide longitudinal cracking.

Bent 1	Row 1	Caps	1

Element: 235 Name Timber Pier Cap Qty: 20 Lvl 2: 0 Lvl 3 13 Lvl 4 0 Maint. Qty 13
Defect Description:

1 Feet of Crack (Timber): Ientified crack that is not arrested but does not require structural review. Vertical crack in right end, 11" high, 0.25 inch wide.

12 Feet of Crack (Timber): Ientified crack that is not arrested but does not require structural review. 0.0625 inch wide longitudinal cracking.

Bent 1	Row 1	Piles and Columns	1

Element: 228 Name Timber Pile Qty: 1 Lvl 2: 0 Lvl 3 0 Lvl 4 1 Maint. Qty 8
Defect Description:

1 Each of Decay/Section Loss: The condition warrants a structural review to determine the effect on strength or serviceability of the element or bridge; OR a structural review has been completed and the defects impact strength or serviceability of the element or bridge. Pile 1, bent 1, has 50 % section loss, for a length of 8 feet. This pile has been replaced by adding an adjacent pile.

Bent 1	Row 1	Piles and Columns	2

Element: 228 Name Timber Pile Qty: 1 Lvl 2: 0 Lvl 3 1 Lvl 4 0 Maint. Qty 8
Defect Description:

REPLACEMENT PILE

1 Each of Crack (Timber): Identified crack that is not arrested but does not require structural review. 8 feet of 0.0313 inch wide longitudinal cracking.

Bent 1	Row 1	Piles and Columns	3

Element: 228 Name Timber Pile Qty: 1 Lvl 2: 0 Lvl 3 1 Lvl 4 0 Maint. Qty 12
Defect Description:

1 Each of Crack (Timber): Identified crack that is not arrested but does not require structural review. 6 feet of 0.125 inch wide longitudinal cracking and 6 feet of 0.0625 inch wide longitudinal cracking.

Bent 1	Row 1	Piles and Columns	4

Element: 228 Name Timber Pile Qty: 1 Lvl 2: 0 Lvl 3 1 Lvl 4 0 Maint. Qty 14
Defect Description:

1 Each of Crack (Timber): Identified crack that is not arrested but does not require structural review. 5 feet of 0.25 inch wide longitudinal cracking and 6 feet of 0.0625 inch wide longitudinal cracking.

Decay/Section Loss: The condition warrants a structural review to determine the effect on strength or serviceability of the element or bridge; OR a structural review has been completed and the defects impact strength or serviceability of the element or bridge. Area of decay, 5 feet below cap, 20" high x 2" wide x 4" deep, south face.

Split/Delamination: Length less than the member depth or arrested with effective actions taken to mitigate. Area of delamination, 1 square foot on left and right side, 5 feet below bottom of cap.

Bent 1	Row 1	Piles and Columns	5

Element: 228 Name Timber Pile Qty: 1 Lvl 2: 0 Lvl 3 1 Lvl 4 0 Maint. Qty 8
Defect Description:

REPLACEMENT PILE

1 Each of Crack (Timber): Identified crack that is not arrested but does not require structural review. 8 feet of 0.0625 inch wide longitudinal cracking.

Bent 1	Row 1	Piles and Columns	6

Element: 228 Name Timber Pile Qty: 1 Lvl 2: 0 Lvl 3 0 Lvl 4 1 Maint. Qty 4
Defect Description:

1 Each of Decay/Section Loss: The condition warrants a structural review to determine the effect on strength or serviceability of the element or bridge; OR a structural review has been completed and the defects impact strength or serviceability of the element or bridge. Pile 6 at bent 1, has an area of decay, 48 inches x 3 inches x 4 inches deep in the south face, starting at ground-line, this pile has an adjacent replacement pile.

End Bent 2	Row 1	Abutments	1

Element: 216 Name Timber Abutment Qty: 25 Lvl 2: 2 Lvl 3 10 Lvl 4 0 Maint. Qty 12
Defect Description:

10 Feet of Crack (Timber): Identified crack that is not arrested but does not require structural review. 0.0313 inch wide longitudinal cracking.

2 Feet of Decay/Section Loss: Affects less than 10% of the member section Area of decay, 24" x 8" x 1" deep, at pile 3.

End Bent 2 Row 1 Caps 1

Element: 235 Name Timber Pier Cap Qty: 20 Lvl 2: 0 Lvl 3 16 Lvl 4 0 Maint. Qty 16
Defect Description:

16 Feet of Crack (Timber): Ientified crack that is not arrested but does not require structural review. 0.0625 inch wide longitudinal cracking.

End Bent 2 Row 1 Piles and Columns 1

Element: 228 Name Timber Pile Qty: 1 Lvl 2: 0 Lvl 3 1 Lvl 4 0 Maint. Qty 6
Defect Description:

1 Each of Crack (Timber): Identified crack that is not arrested but does not require structural review. 6 feet of 0.0313 inch wide longitudinal cracking.

End Bent 2 Row 1 Piles and Columns 2

Element: 228 Name Timber Pile Qty: 1 Lvl 2: 0 Lvl 3 1 Lvl 4 0 Maint. Qty 8
Defect Description:

1 Each of Crack (Timber): Identified crack that is not arrested but does not require structural review. 4 feet of 0.25 inch wide longitudinal cracking and 4 feet of 0.0313 inch wide longitudinal cracking.

End Bent 2 Row 1 Piles and Columns 3

Element: 228 Name Timber Pile Qty: 1 Lvl 2: 0 Lvl 3 1 Lvl 4 0 Maint. Qty 5
Defect Description:

1 Each of Crack (Timber): Identified crack that is not arrested but does not require structural review. 5 feet of 0.0313 inch wide longitudinal cracking.

End Bent 2 Row 1 Piles and Columns 4

Element: 228 Name Timber Pile Qty: 1 Lvl 2: 0 Lvl 3 1 Lvl 4 0 Maint. Qty 2
Defect Description:

1 Each of Crack (Timber): Identified crack that is not arrested but does not require structural review. 2 feet of 0.0313 inch wide longitudinal cracking.

National Bridge and NC Inspection Items

Structure Number: 980020 Inspection Date: 06/01/2015

National Bridge Inventory Items

Item	Grade Scale	Grade
Item 58: Deck	0 - 9 , N	7
Item 59: Superstructure	0 - 9 , N	4
Item 60: Substructure	0 - 9 , N	6
Item 61: Channel and Channel Protection	0 - 9 , N	7
Item 62: Culvert	0 - 9 , N	
Item 71: Waterway Adequacy	0 - 9 , N	7
Item 72: Approach Roadway Alignment	0 - 9 , N	6

Note: If NBI Inspection Item is not present, code NBI item with "N"

NC SMU Inspection Items

Item	Grade Scale	Grade	Maint. Qty.	Maint. Code
Deck Debris	G, F, P, or C	G	0	3376
Drainage System	G, F, P, or C	G	0	3332
Utilities	G, F, P, or C			
Slope Protection	G, F, P, or C	G	0	3352
Wingwall	G, F, P, or C	G	0	3350
Scour	G, F, P, or C	G		
Field Scour Evaluation		O		
Drift	G, F, P, or C	G	0	3366
Fender System	G, F, P, or C			
Response to Live Load	G, F, P, or C	F		
Estimated Remaining Life	0 - 100 Years	28		

Note: If NC SMU Insepction Item is not present, leave NC SMU item blank

Inspection Information

Item	Grade Scale	Grade
Regulatory Sign Noticed Issued	YES/NO	N
Priority Maintenance Request Submitted	YES/NO	Y
Inspection Time	Hours	7
Traffic Control Time	Hours	
Snooper Time	Hours	
Ladder Used	YES/NO	N
Bucket Truck Used	YES/NO	N
Boat Used	YES/NO	N
Other Equipment Used	YES/NO	N

National Bridge and NC SMU Inspection Item Details

Structure Number: 980020 Inspection Date: 06/01/2015

Item	Superstructure - Item 59	Grade 4	Maint Code	Qty. 0
Details	Longitudinal beams have up to .125 in. of section loss.Priority maintenances issued.			

Item	Substructure - Item 60	Grade 6	Maint Code	Qty. 0
Details	Timber piles have longitudinal cracking.			
	Bent 1, pile 4, has 4 inch deep decay, priority maintenance issued.			
	End bent 2, abutment pile at right side, has decay in right side, 12" x 8" x 4" deep. See photo.			

Item	Approach Roadway Alignment - Item 72	Grade 6	Maint Code	Qty. 0
Details	Curves at both ends of bridge.			
	Speed limit 45 mph.			

Item	Ladder Used	Grade N	Maint Code	Qty. 0
Details	Cross bracing was climbed to inspect bent 1 cap.			

Item	Slope Protection	Grade G	Maint Code 3352	Qty. 0
Details	LARGE RIP RAP AT CORNERS OF END BENT 2			

Item	Response to live load	Grade F	Maint Code	Qty. 0
Details	Up to 2 in. vertical movement, under school bus live load.			



End bent 2, ASPHALT WEARING SURFACE approach has 0.25 inch wide transverse crack, 18 feet long, and settled 1 inch.



ASPHALT WEARING SURFACE approach at end bent 1, good condition.



Abutment 1 pile at left side is decayed 5 inches deep, half of circumference, at ground line.



End Bent 1 Abutment/Backwall : 2 Feet of Decay/Section Loss: Affects less than 10% of the member section Area of decay between pile 2 and 3, 2" x 20" x 2" deep.



Span 1 Beam 1: 1 Feet of Corrosion: The condition warrants a structural review to determine the effect on strength or serviceability of the element or bridge; OR a structural review has been completed and the defects impact strength or serviceability of the element or bridge. 0.125 inch section loss, bottom right flange, 8 feet from end bent 1.



Span 1 Beam 2: 22 Feet of Corrosion: The condition warrants a structural review to determine the effect on strength or serviceability of the element or bridge; OR a structural review has been completed and the defects impact strength or serviceability of the element or bridge. 0.125 inch section loss, top and bottom flange, starting at end bent 1 cap.



Span 1 Beam 3: 11 Feet of Corrosion: The condition warrants a structural review to determine the effect on strength or serviceability of the element or bridge; OR a structural review has been completed and the defects impact strength or serviceability of the element or bridge. 0.0625 inch section loss, bottom flange, starting at end bent 1 cap.



Span 1 Beam 4: 15 Feet of Corrosion: The condition warrants a structural review to determine the effect on strength or serviceability of the element or bridge; OR a structural review has been completed and the defects impact strength or serviceability of the element or bridge. 0.125 inch section loss, bottom flange, starting at end bent 1.



Span 1 Beam 5: 16 Feet of Corrosion: The condition warrants a structural review to determine the effect on strength or serviceability of the element or bridge; OR a structural review has been completed and the defects impact strength or serviceability of the element or bridge. 0.125 inch section loss, bottom flange, starting at end bent 1.



Span 1 Beam 6: 8 Feet of Corrosion: The condition warrants a structural review to determine the effect on strength or serviceability of the element or bridge; OR a structural review has been completed and the defects impact strength or serviceability of the element or bridge. 0.125 inch section loss, bottom flange, starting at end bent 1.



Span 1 Beam 7: 12 Feet of Corrosion: The condition warrants a structural review to determine the effect on strength or serviceability of the element or bridge; OR a structural review has been completed and the defects impact strength or serviceability of the element or bridge. 0.125 inch section loss, bottom flange, starting at end bent 1.



Bent 1 Pile 4: 2 Each of Decay/Section Loss: The condition warrants a structural review to determine the effect on strength or serviceability of the element or bridge; OR a structural review has been completed and the defects impact strength or serviceability of the element or bridge. Area of decay, 5 feet below cap, 20" high x 2" wide x 4" deep, south face.



Bent 1 Cap : 1 Feet of Crack (Timber): Ientified crack that is not arrested but does not require structural review. Vertical crack in right end, 11" high, 0.25 inch wide.



Span 2 Beam 2: 6 Feet of Corrosion: The condition warrants a structural review to determine the effect on strength or serviceability of the element or bridge; OR a structural review has been completed and the defects impact strength or serviceability of the element or bridge. 0.0625 inch section loss, bottom flange, starting 7 feet from end bent 2.



Span 2 Beam 5: 7 Feet of Corrosion: The condition warrants a structural review to determine the effect on strength or serviceability of the element or bridge; OR a structural review has been completed and the defects impact strength or serviceability of the element or bridge. 0.0625 inch section loss, bottom flange, starting 12 feet from end bent 2.



End Bent 2 Abutment/Backwall : 2 Feet of Decay/Section Loss: Affects less than 10% of the member section Area of decay, 24" x 8" x 1" deep, at pile 3.



Span 2, right rail, rail post spacer block completely decayed and missing, located 6 feet from end bent 2.



Span 1 Deck: 75 Square Feet of Crack (Timber): Identified crack that is not arrested but does not require structural review. 0.0313 inch wide longitudinal cracking.



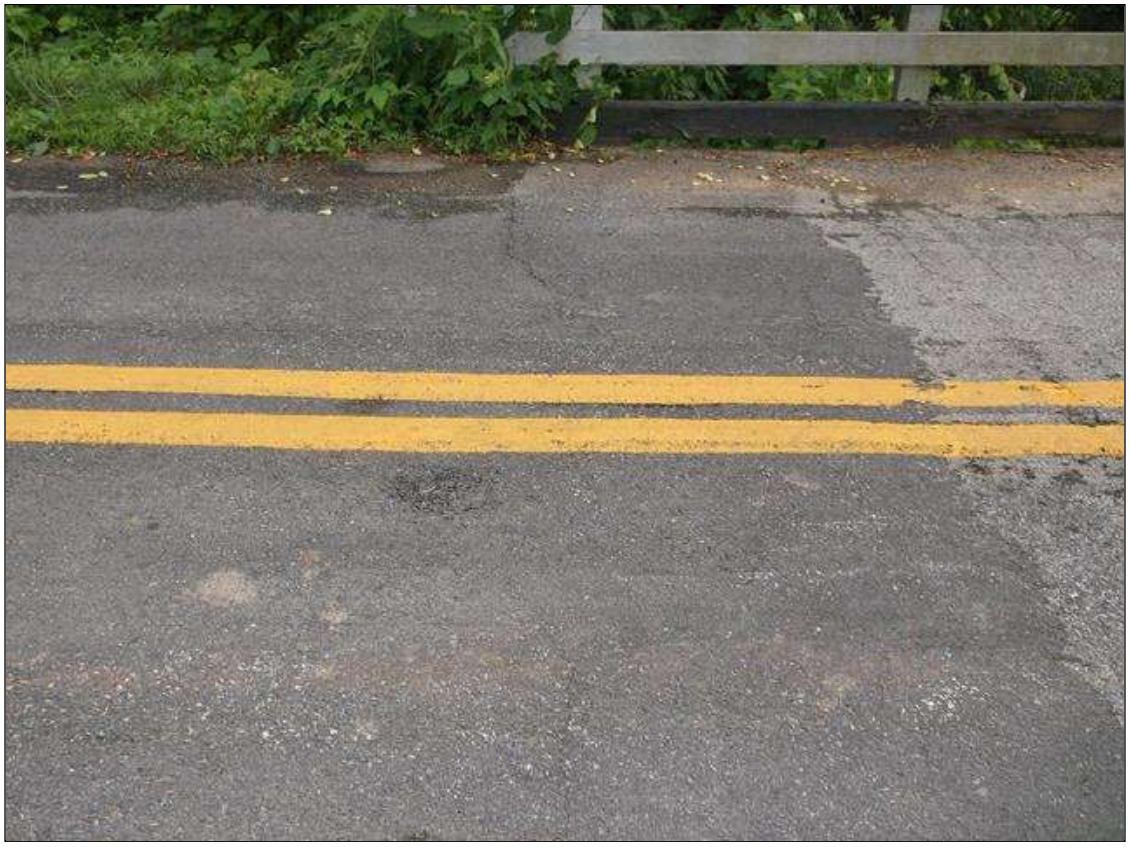
End bent 2 abutment pile at right side has decay in right side, 12" x 8" x 4" deep.



ASPHALT WEARING SURFACE over bent 1 has longitudinal cracking.



Span 1 Wearing Surface: 7 Square Feet of Crack (Wearing Surface): Width of more than 0.05 in. or spacing of less than 1.0 ft. 0.0625 inch wide transverse crack, right lane, 9 feet from bent 1.



ASPHALT WEARING SURFACE at end bent 1 has transverse cracking.



Span 1 Left Bridge Rail: 6 Feet of Decay/Section Loss: Affect less than 10% of the member section. Decay in wheel guard, top and inside face at midspan, 3" wide x 1" deep.



Span 1 Left Bridge Rail: 1 Feet of Decay/Section Loss: Affect less than 10% of the member section. Area of decay in second rail post, 4" x 2" x 2", with ant infestation.



Span 2 Wearing Surface: 10 Square Feet of Crack (Wearing Surface): Width of more than 0.05 in. or spacing of less than 1.0 ft. 0.0625 inch wide transverse cracking, 10 feet long at 1/3 point.



Span 2 Wearing Surface: 20 Square Feet of Delamination/Spall/Patched Area/Pothole (Wearing Surfaces): Delaminated. Spall less than 1 in. deep or less than 6 in. diameter. Patched area that is sound. Partial depth pothole. 2 patched areas at end bent 2, 4' x 2.5'.



Span 2 Right Bridge Rail: 2 Feet of Decay/Section Loss: Affect less than 10% of the member section. Decay in bottom of rail post, 24" x 4" x 2" deep, 6 feet from end bent 2.



North approach looking south.



Posting sign at left side, end bent 2.



Looking upstream.



Looking downstream.



Posting sign at right side, end bent 1.



South approach looking north.



Right side of bridge looking north.



Left side of bridge looking north.



End bent 1, left half.



End bent 1, right half.



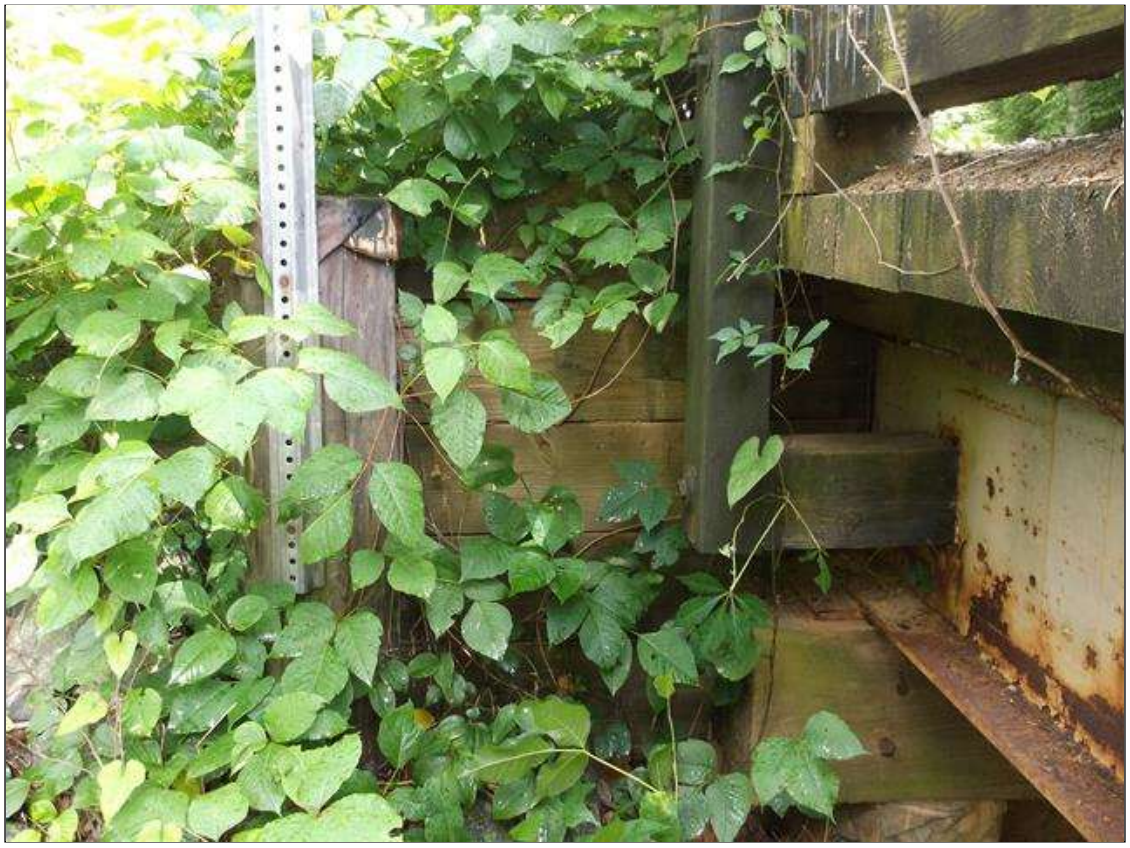
Superstructure, span 1, looking north.



Bent 1, span 1 side.



Abutment 1, left end.



Abutment 1, right end.



End bent 2, left half.



End bent 2, right half.



Abutment 2, left side.



Abutment 2, right side and right WINGWALL.



Right rail, span 2.



Left rail, span 2.



Narrow bridge sign at south end.



Narrow bridge sign at north end.

IDENTIFICATION

(1) STATE NAME -NORTH CAROLINA BRIDGE 980020
(8) STRUCTURE NUMBER(FEDERAL) 000000001970020
(5) INVENTORY ROUTE (ON/UNDER) - ON 31011520
(2) STATE HIGHWAY DEPARTMENT DISTRICT 1
(3) COUNTY CODE 197 (4) PLACE CODE 0
(6) FEATURE INTERSECTED - SOUTH DEEP CREEK
(7) FACILITY CARRIED SR1152
(9) LOCATION .2 MI.S.JCT.SR1151
(11)MILEPOINT 0
(16)LAT 36° 5' 50.82" (17)LONG 80° 40' 33.55"
(98)BORDER BRIDGE STATE CODE PCT SHARE
(99)BORDER BRIDGE STRUCTURE NO

STRUCTURE TYPE AND MATERIAL

(43) STRUCTURE TYPE MAIN: Steel
TYPE - Stringer Mutlibeam or Girder CODE 302
(44) STRUCTURE TYPE APPR :
TYPE - CODE 000
(45) NUMBER OF SPANS IN MAIN UNIT 2
(46) NUMBER OF APPROACH SPANS
(107)DECK STRUCTURE TYPE - 8 CODE
(108)WEARING SURFACE / PROTECTIVE SYSTEM :
(A) TYPE OF WEARING SURFACE - CODE
(B) TYPE OF MEMBRANE - CODE
(C) TYPE OF DECK PROTECTION - CODE

AGE AND SERVICE

(27) YEAR BUILT 1963
(106)YEAR RECONSTRUCTED
(42) TYPE OF SERVICE : ON - Highway
UNDER - Waterway CODE 15
(28) LANES: ON STRUCTURE 2 UNDER STRUCTURE 0
(29) AVERAGE DAILY TRAFFIC 200
(30) YEAR OF ADT 2000 (109) TRUCK ADT PCT 6%
(19) BYPASS OR DETOUR LENGTH 5 MI

GEOMETRIC DATA

(48) LENGTH OF MAXIMUM SPAN 45 FT
(49) STRUCTURE LENGTH 91 FT
(50)CURB OR SIDEWALK: LEFT .3 FT RIGHT .3 FT
(51) BRIDGE ROADWAY WIDTH CURB TO CURB 19.167 FT
(52) DECK WIDTH OUT TO OUT 20.083 FT
(32) APPROACH ROADWAY WIDTH (W/SHOULDERS) 18 FT
(33) BRIDGE MEDIAN - No Median CODE 0
(34) SKEW 0° (35) STRUCTURE FLARED 0
(10) INVENTORY ROUTE MIN VERT CLEAR 999.9 FT
(47) INVENTORY ROUTE TOTAL HORIZ CLEAR 19.167 FT
(53) MIN VERT CLEAR OVER BRIDGE RDWY 999.9 FT
(54) MIN VERT UNDERCLEAR REF Not a Highway or Railroad 0 FT
(55) MIN LAT UNDERCLEAR RT REF Not a Highway or Railroad 000 FT
(56) MIN LAT UNDERCLEAR LT REF - 000 FT

NAVIGATION DATA

(38) NAVIGATION CONTROL - No Navigational Control CODE 0
(111)PIER PROTECTION - CODE
(39) NAVIGATION VERTICAL CLEARANCE 0
(116)VERT - LIFT BRIDGE NAV MIN VERT CLEAR FT
(40) NAVIGATION HORIZONTAL CLEARANCE 0 FT

SUFFICIENCY RATING = 21.09
STATUS = Structurally Deficient

CLASSIFICATION CODE

(112)NBIS BRIDGE SYSTEM - YES
(104)HIGHWAY SYSTEM Is not on NHS 0
(26) FUNCTIONAL CLASS - Local 09
(100)STRAHNET HIGHWAY - Not a STRAHNET Route 0
(101)PARALLEL STRUCTURE - No Parallel Structure N
(102)DIRECTION OF TRAFFIC - 2-way Traffic 2
(103)TEMPORARY STRUCTURE - Temporary Structure/Conditions T
(110)DESIGNATED NATIONAL NETWORK - Not on the National Network 0
(20) TOLL On Free Road 3
(31) MAINTAIN - State Highway Agency 01
(22) OWNER - State Highway Agency 01
(37) HISTORICAL SIGNIFICANCE - Not Eligible 5

CONDITION CODE

(58) DECK 7
(59) SUPERSTRUCTURE 4
(60) SUBSTRUCTURE 4
(61) CHANNEL & CHANNEL PROTECTION 7
(62) CULVERTS N

LOAD RATING AND POSTING CODE

(31) DESIGN LOAD Unknown 0
(63) OPERATING RATING METHOD - Load Factor 1
(64) OPERATING RATING - HS-1 1
(65) INVENTORY RATING METHOD - Load Factor 1
(66) INVENTORY RATING - HS-1 1
(70) BRIDGE POSTING - Posting Required 0
(41) STRUCTURE OPEN, POSTED ,OR CLOSED P
DESCRIPTION - Posted for Load

APPRAISAL CODE

(67) STRUCTURAL EVALUATION 3
(68) DECK GEOMETRY 3
(69) UNDERCLEARANCES,VERTI & HORIZ N
(71) WATERWAY ADEQUACY 7
(72) APPROACH ROADWAY ALIGNMENT 6
(36) TRAFFIC SAFETY FEATURES 0000
(113)SCOUR CRITICAL BRIDGES U

PROPOSED IMPROVEMENTS

(75) TYPE OF WORK - CODE
(76) LENGTH OF STRUCTURE IMPROVEMENT
(94) BRIDGE IMPROVEMENT COST
(95) ROADWAY IMPROVEMENT COST
(96) TOTAL PROJECT COST
(97) YEAR OF IMPROVEMENT COST ESTIMATE
(114)FUTURE ADT 400 (115) YEAR FUTURE ADT 2025

INSPECTIONS

(90) INSPECTION DATE 06/01/2015
(92) CRITICAL FEATURE INSPECTION : (93) CFI DATE
A) FRACTURE CRIT DETAIL - NO A)
B) UNDERWATER INSP - NO B)
C) OTHER SPECIAL INSP NO C)
SCOUR

BRIDGE MANAGEMENT UNIT

DATA ON EXISTING STRUCTURE Run Date: 06/30/2015

COUNTY :	DIVISION :	DISTRICT:	STRUCTURE NUMBER :	LENGTH :
YADKIN	11	1	980020	91 FEET

ROUTE CARRIED : SR1152

FEATURE INTERSECTED : SOUTH DEEP CREEK

LOCATED : .2 MI.S.JCT.SR1151

BRIDGE NAME :

CITY :

FUNC. CLASS :	SYST.ON :	SYST.UNDER :	ADT & YR :	RAIL TYPE :
09	NFA	NFA	200 2000	LT 227 RT 227

BUILT :	BY :	PROJ :	FED.AID PROJ :	DESIGN LOAD :
1963	BMU			Unknown

REHAB :	BY :	PROJ :	ALIGNMENT :	SKEW :	LANES :
			TAN	90	ON 2 UNDER 0

NAVIGATION :	HT. CRN. TO BED :	WATER DEPTH :
VC 0 FT HC 0 FT	13 FT	1 FT

SUPERSTRUCTURE : TIMBER FLOOR ON I-BEAMS (BMD-8)

SUBSTRUCTURE : E.BTS&INT.BT:TIMBER CAPS/TIMBER PILES@ VAR.CTS.

SPANS : 2 @ 45'-3

BEAMS OR GIRDERS : 8 LINES 18 I-BEAMS @ 2'-7 CENTERS

FLOOR :	ENCROACHMENT :	DECK (OUT TO OUT) :
4X8 TIM/2 AWS		20.083 FT

CLEAR ROADWAY :	BETWEEN RAILS :	SIDEWALK OR CURB :
19.167 FT	19.833 FT	LT .3 FT RT .3 FT

VERT.CL.OVER : 999.9 FT

INV.RTG. :	OPE.RTG. :	CONTR.MEMBER :	POSTED :
HS-1	HS-1	IntBm (Sec.Loss)	SV 14 TTST 17 DATE 06/29/2015

SYSTEM : Secondary S.R. Route

GREEN LINE ROUTE : N

UNDER ROUTES AND CLEARANCES

REMARKS :

BRIDGE INSPECTOR'S RECOMMENDATION FOR MAINTENANCE REPAIRS

Bridge: 980020 County YADKIN Date:

These Repairs Should Be Made Within Twelve Months From Date Of This Inspection

MMS Code	Description of Function	Unit	Quantity	Remarks	Est. Cost
3314	Maintain Steel Superstructure Components	LF	7	SPAN 2 BEAM 5: 7 FEET OF CORROSION: 0.0625 INCH SECTION LOSS, BOTTOM FLANGE, STARTING 12 FEET FROM END BENT 2.	
3314	Maintain Steel Superstructure Components	LF	6	SPAN 2 BEAM 2: 6 FEET OF CORROSION: 0.0625 INCH SECTION LOSS, BOTTOM FLANGE, STARTING 7 FEET FROM END BENT 2.	
3314	Maintain Steel Superstructure Components	LF	12	SPAN 1 BEAM 7: 12 FEET OF CORROSION: 0.125 INCH SECTION LOSS, BOTTOM FLANGE, STARTING AT END BENT 1.	
3314	Maintain Steel Superstructure Components	LF	8	SPAN 1 BEAM 6: 8 FEET OF CORROSION: 0.125 INCH SECTION LOSS, BOTTOM FLANGE, STARTING AT END BENT 1.	
3314	Maintain Steel Superstructure Components	LF	15	SPAN 1 BEAM 4: 15 FEET OF CORROSION: 0.125 INCH SECTION LOSS, BOTTOM FLANGE, STARTING AT END BENT 1.	
3314	Maintain Steel Superstructure Components	LF	11	SPAN 1 BEAM 3: 11 FEET OF CORROSION: 0.0625 INCH SECTION LOSS, BOTTOM FLANGE, STARTING AT END BENT 1 CAP.	
3314	Maintain Steel Superstructure Components	LF	22	SPAN 1 BEAM 2: 22 FEET OF CORROSION: 0.125 INCH SECTION LOSS, TOP AND BOTTOM FLANGE, STARTING AT END BENT 1 CAP.	
3314	Maintain Steel Superstructure Components	LF	16	SPAN 1 BEAM 5: 16 FEET OF CORROSION: 0.125 INCH SECTION LOSS, BOTTOM FLANGE, STARTING AT END BENT 1.	
3314	Maintain Steel Superstructure Components	LF	1	SPAN 1 BEAM 1: 1 FEET OF CORROSION: 0.125 INCH SECTION LOSS, BOTTOM RIGHT FLANGE, 8 FEET FROM END BENT 1.	
3344	Repair / Replace Timber Substructure Components	LF	2	BENT 1 PILE 4: 2 EACH of decay/sections loss: area of decay, 5 feet below cap, 20” high x 2” wide x 4” deep, south face	

Key

Priority Maintenance Item Critical Finding Item Priority Maintenance Level Not Determined

BRIDGE INSPECTOR'S RECOMMENDATION FOR PRIORITY MAINTENANCE REPAIRS

Bridge: 980020 County YADKIN

THE FOLLOWING MAINTENANCE ITEMS HAVE BEEN SUBMITTED IN CONJUNCTION WITH A PRIORITY MAINTENANCE REQUEST

MMS Code	MMS Description	Quantity
3314	Maintain Steel Superstructure Components	7 LF

Location:		
Beams and Girders	Bent/Span No. 2	BEAM 5, SPAN 2, BOTTOM FLANGE

Priority Level	Status
Priority Maintenance	Division Bridge Maintenance Notification Received

Submitted Date:	Submitted By:	Assisted By:
06/03/2015	MARK WADE	KYLE SCOTT

Details

SPAN 2 BEAM 5: 7 FEET OF CORROSION: 0.0625 INCH SECTION LOSS, BOTTOM FLANGE, STARTING 12 FEET FROM END BENT 2.

MMS Code	MMS Description	Quantity
3314	Maintain Steel Superstructure Components	6 LF

Location:		
Beams and Girders	Bent/Span No. 2	BEAM 2, SPAN 2, BOTTOM FLANGE

Priority Level	Status
Priority Maintenance	Division Bridge Maintenance Notification Received

Submitted Date:	Submitted By:	Assisted By:
06/03/2015	MARK WADE	KYLE SCOTT

Details

SPAN 2 BEAM 2: 6 FEET OF CORROSION: 0.0625 INCH SECTION LOSS, BOTTOM FLANGE, STARTING 7 FEET FROM END BENT 2.

BRIDGE INSPECTOR'S RECOMMENDATION FOR PRIORITY MAINTENANCE REPAIRS

Bridge: 980020 County YADKIN

THE FOLLOWING MAINTENANCE ITEMS HAVE BEEN SUBMITTED IN CONJUNCTION WITH A PRIORITY MAINTENANCE REQUEST

MMS Code	MMS Description	Quantity
3314	Maintain Steel Superstructure Components	12 LF

Location:		
Beams and Girders	Bent/Span No. 1	BEAM 7, SPAN 1, BOTTOM FLANGE

Priority Level	Status
Priority Maintenance	Division Bridge Maintenance Notification Received

Submitted Date:	Submitted By:	Assisted By:
06/03/2015	MARK WADE	KYLE SCOTT

Details

SPAN 1 BEAM 7: 12 FEET OF CORROSION: 0.125 INCH SECTION LOSS, BOTTOM FLANGE, STARTING AT END BENT 1.

MMS Code	MMS Description	Quantity
3314	Maintain Steel Superstructure Components	8 LF

Location:		
Beams and Girders	Bent/Span No. 1	BEAM 6, SPAN 1, BOTTOM FLANGE

Priority Level	Status
Priority Maintenance	Division Bridge Maintenance Notification

Submitted Date:	Submitted By:	Assisted By:
06/03/2015	MARK WADE	KYLE SCOTT

Details

SPAN 1 BEAM 6: 8 FEET OF CORROSION: 0.125 INCH SECTION LOSS, BOTTOM FLANGE, STARTING AT END BENT 1.

BRIDGE INSPECTOR'S RECOMMENDATION FOR PRIORITY MAINTENANCE REPAIRS

Bridge: 980020 County YADKIN

THE FOLLOWING MAINTENANCE ITEMS HAVE BEEN SUBMITTED IN CONJUNCTION WITH A PRIORITY MAINTENANCE REQUEST

MMS Code	MMS Description	Quantity
3314	Maintain Steel Superstructure Components	15 LF

Location:		
Beams and Girders	Bent/Span No. 1	BEAM 4, SPAN 1, BOTTOM FLANGE

Priority Level	Status
Priority Maintenance	Division Bridge Maintenance Notification

Submitted Date:	Submitted By:	Assisted By:
06/03/2015	MARK WADE	KYLE SCOTT

Details

SPAN 1 BEAM 4: 15 FEET OF CORROSION: 0.125 INCH SECTION LOSS, BOTTOM FLANGE, STARTING AT END BENT 1.

MMS Code	MMS Description	Quantity
3314	Maintain Steel Superstructure Components	11 LF

Location:		
Beams and Girders	Bent/Span No. 1	BEAM 3, SPAN 1, BOTTOM FLANGE

Priority Level	Status
Priority Maintenance	Division Bridge Maintenance Notification

Submitted Date:	Submitted By:	Assisted By:
06/03/2015	MARK WADE	KYLE SCOTT

Details

SPAN 1 BEAM 3: 11 FEET OF CORROSION: 0.0625 INCH SECTION LOSS, BOTTOM FLANGE, STARTING AT END BENT 1 CAP.

BRIDGE INSPECTOR'S RECOMMENDATION FOR PRIORITY MAINTENANCE REPAIRS

Bridge: 980020 County YADKIN

THE FOLLOWING MAINTENANCE ITEMS HAVE BEEN SUBMITTED IN CONJUNCTION WITH A PRIORITY MAINTENANCE REQUEST

MMS Code	MMS Description	Quantity
3314	Maintain Steel Superstructure Components	22 LF

Location:		
Beams and Girders	Bent/Span No. 1	BEAM 2, SPAN 1, TOP AND BOTTOM FLANGES

Priority Level	Status
Priority Maintenance	Division Bridge Maintenance Notification

Submitted Date:	Submitted By:	Assisted By:
06/03/2015	MARK WADE	KYLE SCOTT

Details

SPAN 1 BEAM 2: 22 FEET OF CORROSION: 0.125 INCH SECTION LOSS, TOP AND BOTTOM FLANGE, STARTING AT END BENT 1 CAP.

MMS Code	MMS Description	Quantity
3314	Maintain Steel Superstructure Components	16 LF

Location:		
Beams and Girders	Bent/Span No. 1	BEAM 5, SPAN 1, BOTTOM FLANGE

Priority Level	Status
Priority Maintenance	Division Bridge Maintenance Notification

Submitted Date:	Submitted By:	Assisted By:
06/03/2015	MARK WADE	KYLE SCOTT

Details

SPAN 1 BEAM 5: 16 FEET OF CORROSION: 0.125 INCH SECTION LOSS, BOTTOM FLANGE, STARTING AT END BENT 1.

BRIDGE INSPECTOR'S RECOMMENDATION FOR PRIORITY MAINTENANCE REPAIRS

Bridge: 980020 County YADKIN

THE FOLLOWING MAINTENANCE ITEMS HAVE BEEN SUBMITTED IN CONJUNCTION WITH A PRIORITY MAINTENANCE REQUEST

MMS Code	MMS Description	Quantity
3314	Maintain Steel Superstructure Components	1 LF

Location:		
Beams and Girders	Bent/Span No. 1	BEAM 1, SPAN 1, BOTTOM RIGHT FLANGE

Priority Level	Status
Priority Maintenance	Division Bridge Maintenance Notification

Submitted Date:	Submitted By:	Assisted By:
06/03/2015	MARK WADE	KYLE SCOTT

Details

SPAN 1 BEAM 1: 1 FEET OF CORROSION: 0.125 INCH SECTION LOSS, BOTTOM RIGHT FLANGE, 8 FEET FROM END BENT 1.

MMS Code	MMS Description	Quantity
3344	Repair / Replace Timber Substructure Components	2 LF

Location:		
Pier Substructure	Bent/Span No. 1	BENT 1, PILE 3

Priority Level	Status
Priority Maintenance	Division Bridge Maintenance Notification Received

Submitted Date:	Submitted By:	Assisted By:
06/03/2015	MARK WADE	KYLE SCOTT

Details

BENT 1 PILE 4: 2 EACH of decay/sections loss: area of decay, 5 feet below cap, 20” high x 2” wide x 4” deep, south face



SPAN 1 BEAM 1: 1 FEET OF CORROSION: 0.125 INCH SECTION LOSS, BOTTOM RIGHT FLANGE, 8 FEET FROM END BENT 1.



SPAN 1 BEAM 2: 22 FEET OF CORROSION: 0.125 INCH SECTION LOSS, TOP AND BOTTOM FLANGE, STARTING AT END BENT 1 CAP.



SPAN 1 BEAM 3: 11 FEET OF CORROSION: 0.0625 INCH SECTION LOSS, BOTTOM FLANGE, STARTING AT END BENT 1 CAP.



SPAN 1 BEAM 4: 15 FEET OF CORROSION: 0.125 INCH SECTION LOSS, BOTTOM FLANGE, STARTING AT END BENT 1.



SPAN 1 BEAM 5: 16 FEET OF CORROSION: 0.125 INCH SECTION LOSS, BOTTOM FLANGE, STARTING AT END BENT 1.



SPAN 1 BEAM 6: 8 FEET OF CORROSION: 0.125 INCH SECTION LOSS, BOTTOM FLANGE, STARTING AT END BENT 1.



SPAN 1 BEAM 7: 12 FEET OF CORROSION: 0.125 INCH SECTION LOSS, BOTTOM FLANGE, STARTING AT END BENT 1.

Structure 980020 County YADKIN Date: Condition Photos



BENT 1 PILE 3: 0 EACH OF DECAY/SECTION LOSS: AREA OF DECAY, 5 FEET BELOW CAP, 20" HIGH X 2" WIDE X 4" DEEP, SOUTH FACE.

Structure 980020 County YADKIN Date: Condition Photos



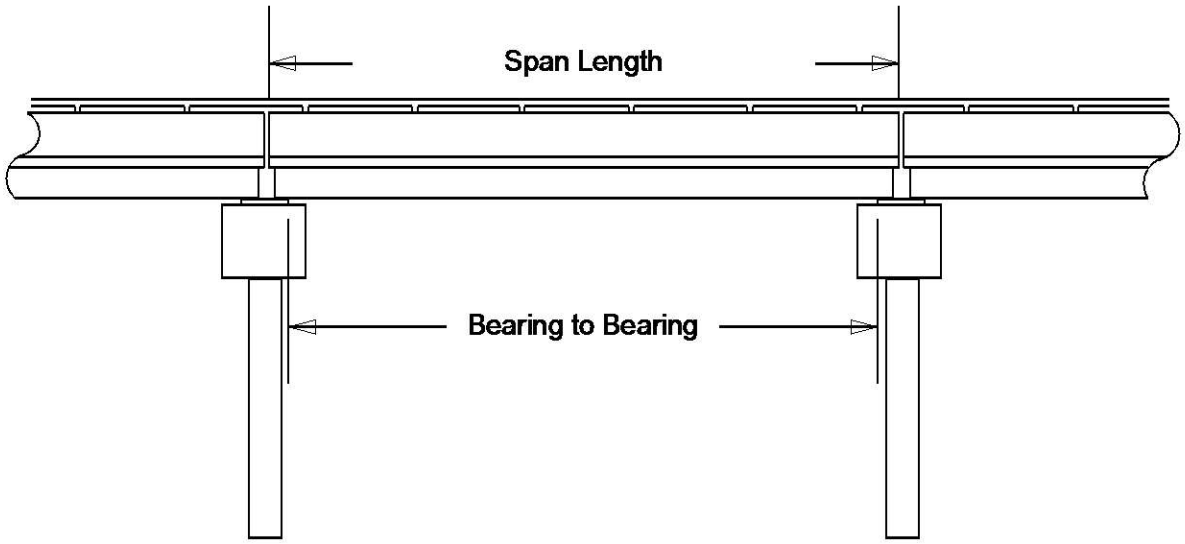
SPAN 2 BEAM 2: 6 FEET OF CORROSION: 0.0625 INCH SECTION LOSS, BOTTOM FLANGE, STARTING 7 FEET FROM END BENT 2.



SPAN 2 BEAM 5: 7 FEET OF CORROSION: 0.0625 INCH SECTION LOSS, BOTTOM FLANGE, STARTING 12 FEET FROM END BENT 2.

Structure Data Worksheet

County: YADKIN Structure No: 980020 Date: Inspected By: MSW



Span No	Span Length	Bearing to Bearing	Comments
1	45.25 ft.	44.5 ft.	
2	45.25 FT.	44.5 ft.	NBIS LENGTH = 88.333

Stream Bed Soundings

(See next sheet for profile sketch)

Bridge No: 980020 County: YADKIN Date: By: MSW

Record sounding from top of rail. Other location if needed: TOP OF RAIL

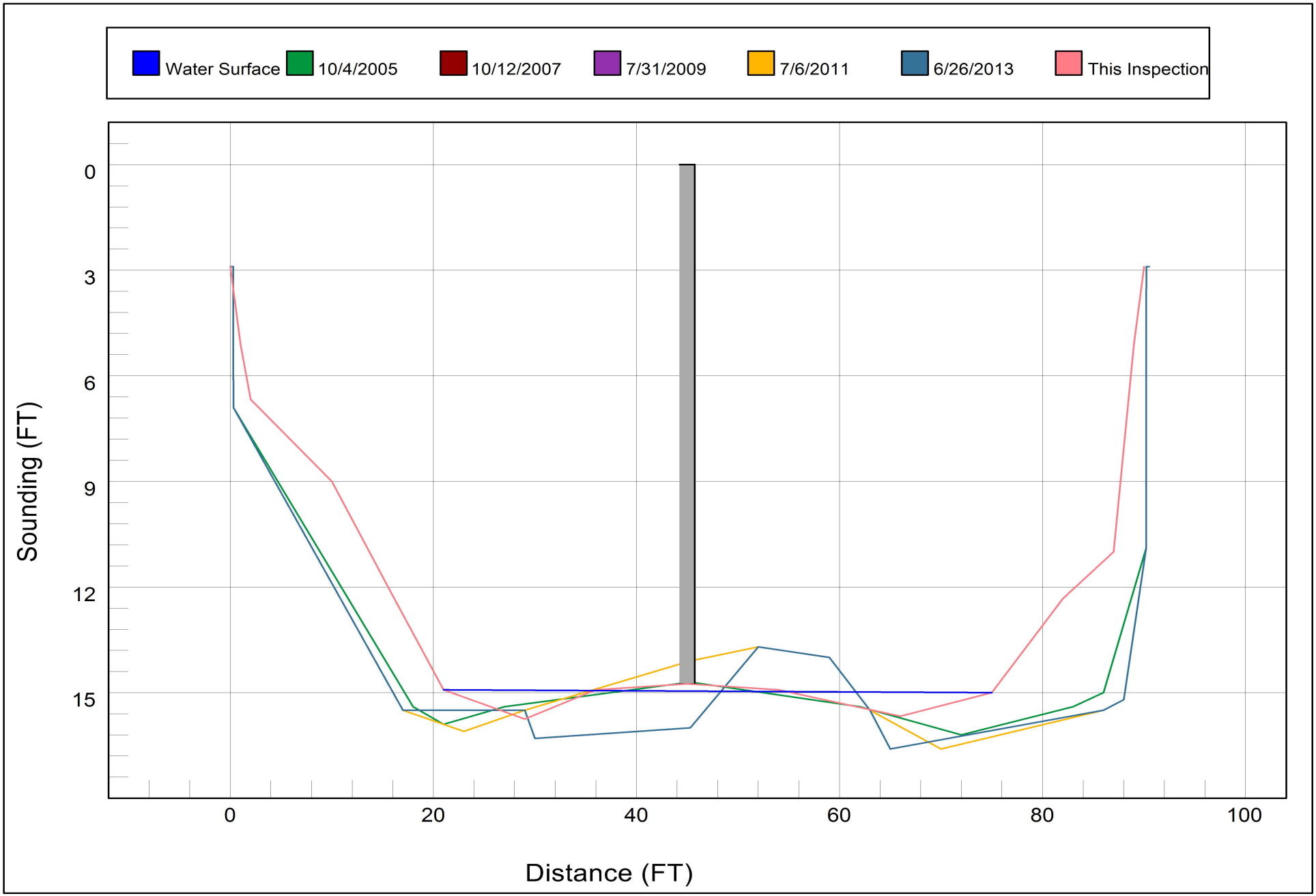
Distance from Highwater Mark to top of rail: Location of Highwater Mark:

DOWNSTREAM			UPSTREAM		
Distance (Station) (ft)	Sounding (ft)	Description	Distance (Station) (ft)	Sounding (ft)	Description
0	2.9	TOP OF WINGWALL			
1	5.1	Top of Cap			
2	6.67	GL AT CAP	2	7.58	GL AT CAP
10	9	GL			
16	12.25	GL			
21	14.92	WSWE			
29	15.75	BED			
36	14.92	WSWE			
45	14.75	BENT 1	45	15.83	BENT 1
54	14.92	WSWE			
66	15.67	BED			
75	15	WSWE			
82	12.33	GL			
87	11	GL AT CAP	87	9.75	GL AT CAP
89	5.1	Top of Cap			
90	2.9	TOP OF WINGWALL			

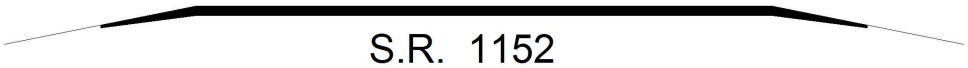
Bridge: 980020 County YADKIN Date:

STREAMBED PROFILE (Downstream)

Top of Rail = 0 FT (Sounding)



Bridge Inspection Field Sketch



S.R. 1152

LOOKING NORTH

Roadway	18ft Wide	2 Paved Lanes	Looking North
Left Shoulder	6ft Wide		6ft Unpaved
Right Shoulder	6ft Wide		6ft Unpaved
Left Guardrail			
Right Guardrail			

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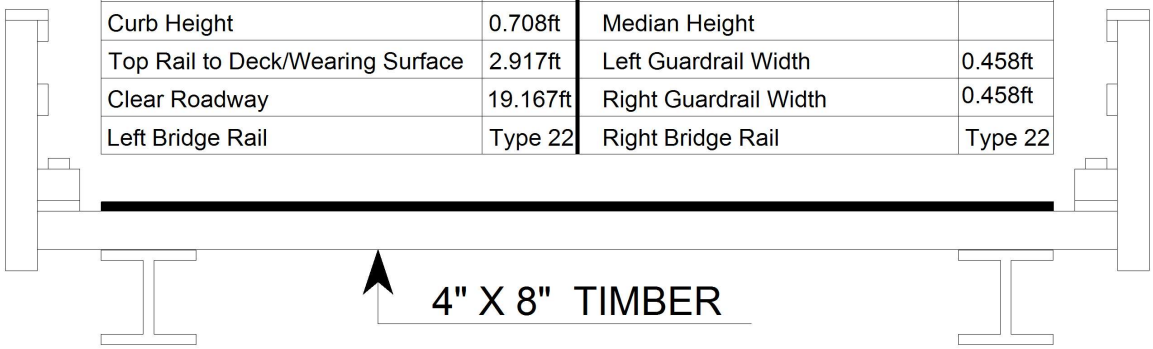
VERIFIED 6/1/15 MSW

Title	**Description**
APPR. RDWY.	APPR. RDWY.

Bridge No: 980020	**Drawn By:** RAP	**Date:** 10/03/2005	**File Name:** S0138000590

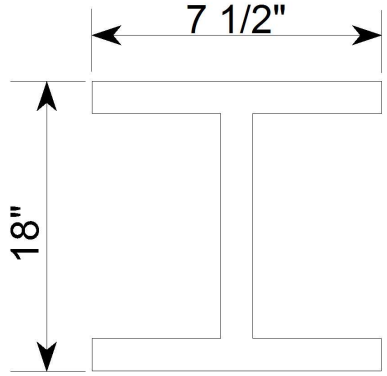
Bridge Inspection Field Sketch

Deck Width/Out to Out	20.083ft	Wearing Surface	0.167ft
Between Rails	19.833ft	Median Width	
Curb Height	0.708ft	Median Height	
Top Rail to Deck/Wearing Surface	2.917ft	Left Guardrail Width	0.458ft
Clear Roadway	19.167ft	Right Guardrail Width	0.458ft
Left Bridge Rail	Type 22	Right Bridge Rail	Type 22



Measurements for Span #	1		
Deck Thickness	0.333	Left Overhang	1
Top of Rail to Bottom of Beam	5.083	Right Overhang	1

Beam No	Beam Type	Spacing	Comments
1	Steel I Beam	2.583ft	BOTH SPANS SIMILAR
2	Steel I Beam	2.583ft	
3	Steel I Beam	2.583ft	
4	Steel I Beam	2.583ft	
5	Steel I Beam	2.583ft	
6	Steel I Beam	2.583ft	
7	Steel I Beam	2.583ft	
8	Steel I Beam		



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VERIFIED 6/1/15 MSW

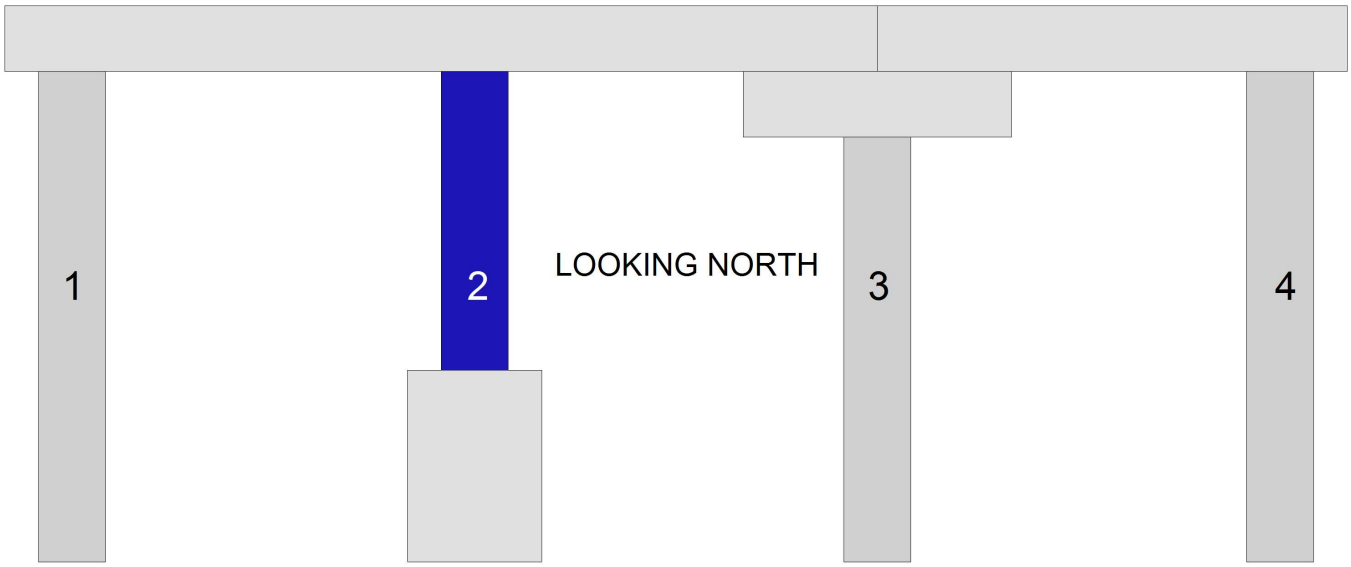
FLANGE THICKNESS: 1/2"

WEB THICKNESS: 3/8"

Title	Description
SUPER.	DECK SECTION

Bridge No:	Drawn By:	Date:	File Name:
980020	RAP	10/03/2005	S0138000591

Bridge Inspection Field Sketch



Cap Information Material Timber

Length	Width	Height	Left Overhang	Right Overhang	Left Beam to End of Cap.	Right Beam to End of Cap.
20.000 ft.	0.833 ft.	0.979 ft.	1 ft.	1 ft.	0.917 ft.	0.917 ft.

Subcap Information Material Timber

Length	Width	Height	Left Overhang	Right Overhang	Left Pile to Splice.
4.000 ft.	.833 ft.	.979 ft.	2.000 ft.	2.000 ft.	0 ft.

Sill Information Material

Length	Width	Height

Pile #	Material	Spacing	Width/Dia.	Height	Length	Orientation	Driven?	Replacement?	Removed?	Collar?
1	Timber	6 ft.	1 ft.			Vertical	Yes	No	No	No
2	Timber	6 ft.	1 ft.			Vertical	Yes	Yes	No	Yes
3	Timber	6 ft.	1 ft.			Vertical	Yes	No	No	No
4	Timber		1 ft.			Vertical	Yes	No	No	No

MODIFIED 6/8/15 MSW

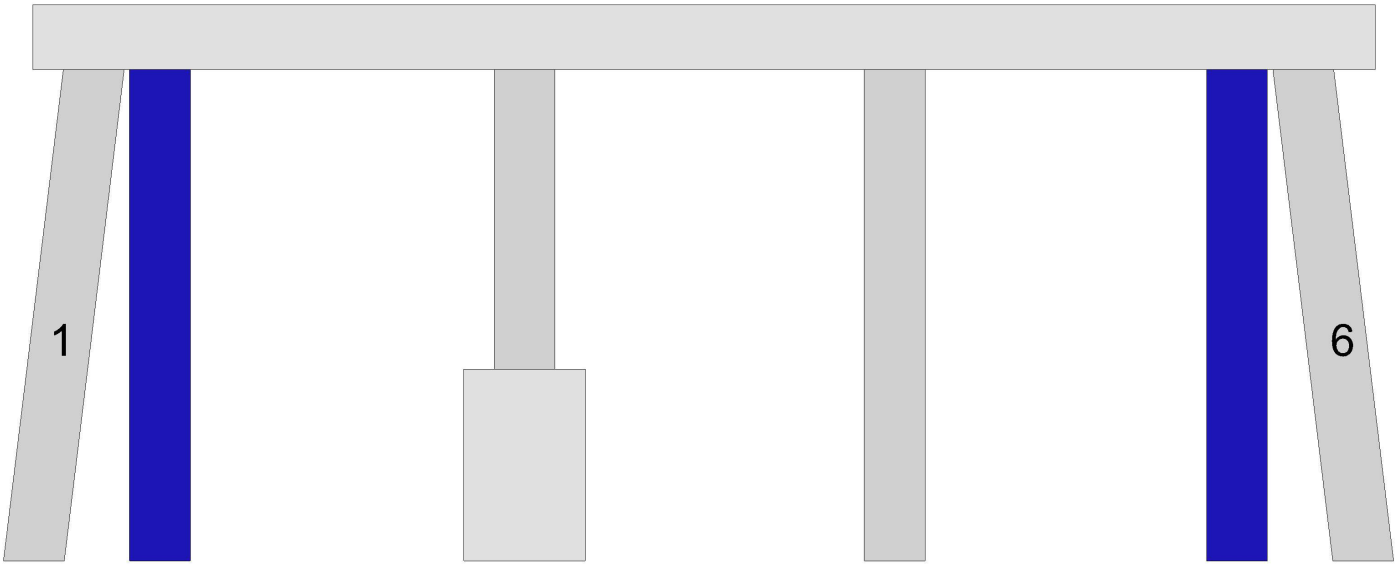
Bent/Abutment #: 1 Similar Bents:

Title
SUBST.

Description
ABUTS.

Bridge No: 980020 **Drawn By:** RAP **Date:** 10/03/2005 **File Name:** S0138000592

Bridge Inspection Field Sketch



Cap Information			Material Timber			
Length	Width	Height	Left Overhang	Right Overhang	Left Beam to End of Cap.	Right Beam to End of Cap.
20.33 ft.	0.833 ft.	0.979 ft.	.917 ft.	1.167 ft.	0.917 ft.	.917 ft.

Subcap Information			Material		
Length	Width	Height	Left Overhang	Right Overhang	Left Pile to Splice.

Sill Information			Material
Length	Width	Height	

Pile #	Material	Spacing	Width/Dia.	Height	Length	Orientation	Driven?	Replacement?	Removed?	Collar?
1	Timber	1 ft.	0.917 ft.			Battered	Yes	No	No	No
2	Timber	5.5 ft.	0.917 ft.			Vertical	Yes	Yes	No	No
3	Timber	5.5833 ft.	0.917 ft.			Vertical	Yes	No	No	Yes
4	Timber	5.1667 ft.	0.917 ft.			Vertical	Yes	No	No	No
5	Timber	1 ft.	0.917 ft.			Vertical	Yes	Yes	No	No
6	Timber		0.917 ft.			Battered	Yes	No	No	No

PILE # 1 & 6 SUPPLIMENTED W / 12" PILE

PILE # 3 REPLACED &ENCASED IN CONC

MODIFIED 6/8/15 MSW

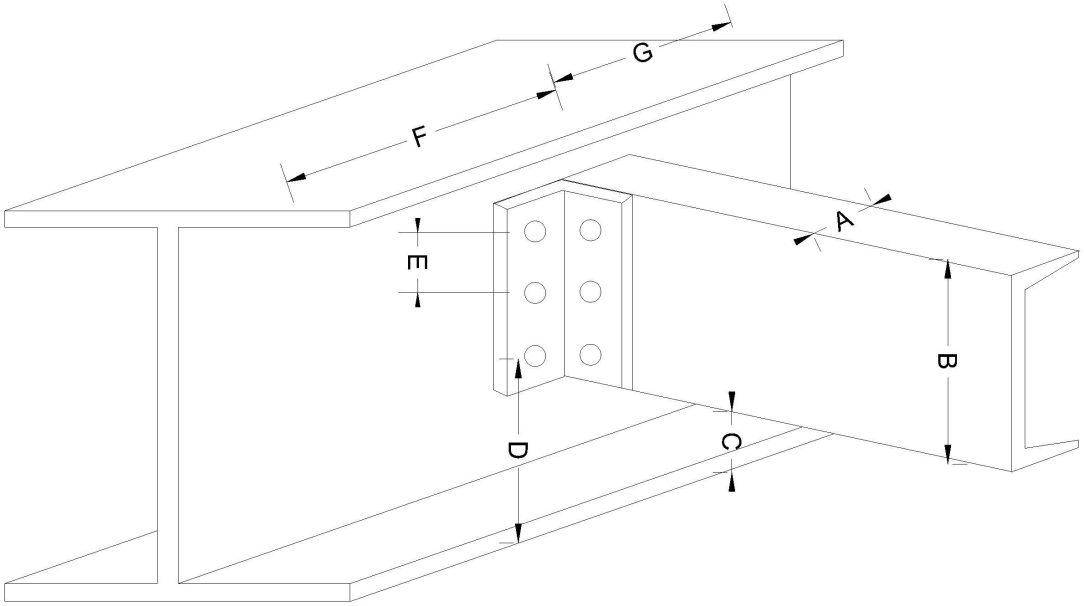
Bent/Abutment #: 1 Similar Bents:

Title	Description
SUBST. 2	PIER

Bridge No:	Drawn By:	Date:	File Name:
980020	RAP	10/03/2005	S0138000593

Bridge Inspection Field Sketch

SPAN: 1 LOCATION: 1/3 POINTS



SPAN	DIM. A	DIM. B	DIM. C	DIM. D	DIM. E	DIM. F	DIM. G	BOLT SIZE
1	2 5/8"	10"	4"	6 1/2"	2 1/2"	15'	15'	3/4"

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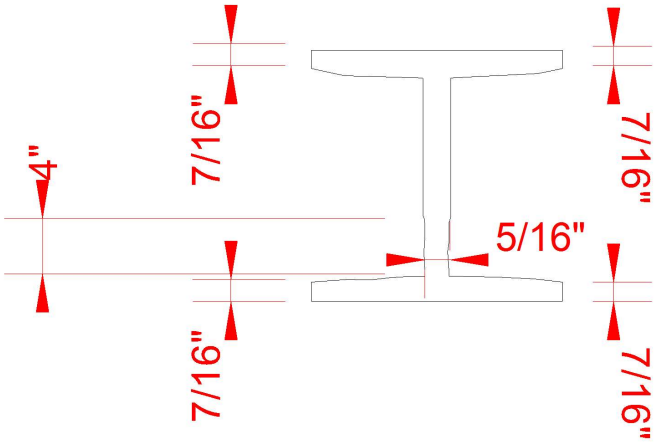
VERIFIED 6/1/15 MSW

Title	Description
DIAPH.	DIAPH.

Bridge No: 980020	Drawn By: RAP	Date: 10/03/2005	File Name: S0138000594

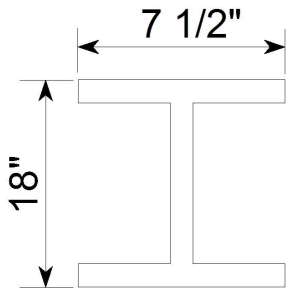
Bridge Inspection Field Sketch

UP TO 1/16" SECT. LOSS ON ALL BM. FLANGES & LOWER 4" OF WEB
LOSS & PITTING EXTENDS FULL LENGTH OF BMS.



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VERIFIED 6/1/15 MSW



FLANGE THICKNESS: 1/2"
WEB THICKNESS: 3/8"

SCALE: N.T.S.

ORIGINAL SECTION

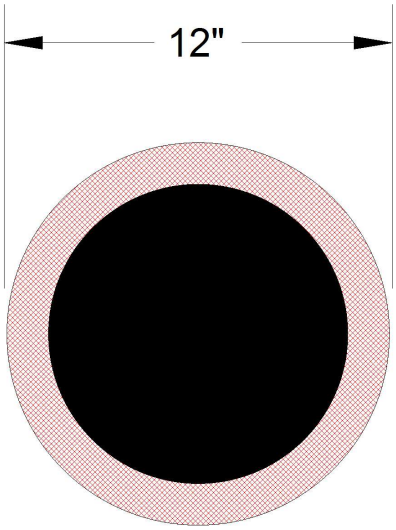
Title	Description
SECT. LOSS	SECT. LOSS

Bridge No:	Drawn By:	Date:	File Name:
980020	RAP	7/7/2011	S0138072677

Bridge Inspection Field Sketch

APPROX. 1" DEEP X FULL CIRCUMFRENCE DECAY ON PILE # 2
@ PIER: DECAY EXTENDS FROM BED UP APPROX. 18"

PILE REPLACED & ENCASED IN CONC.



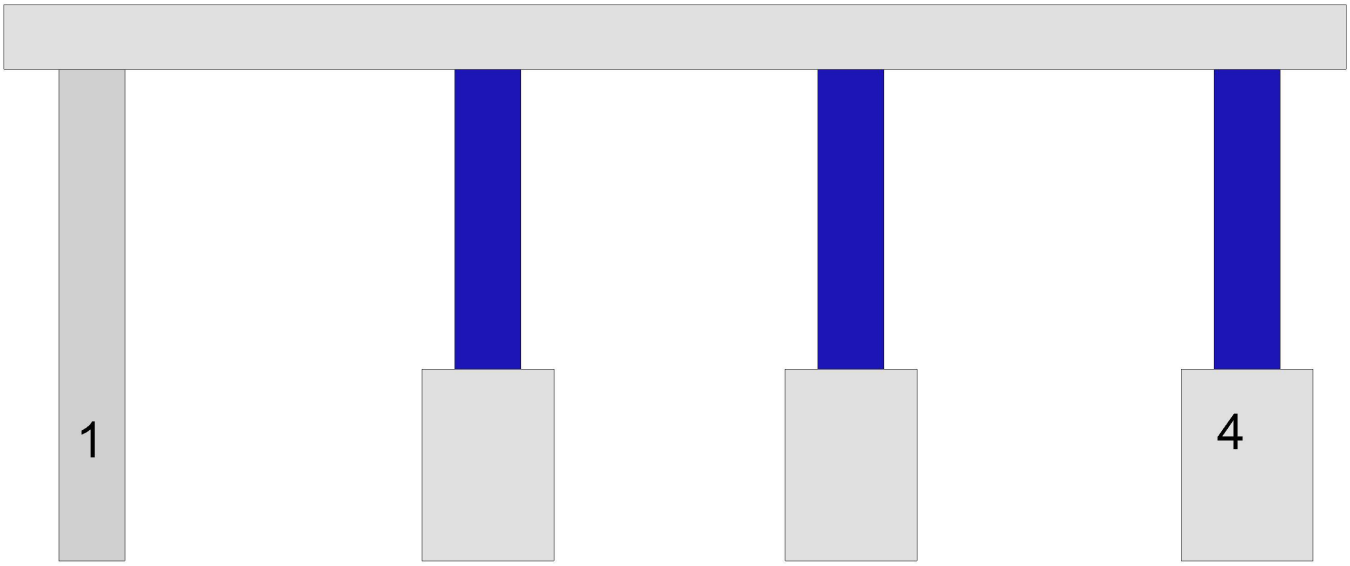
VERIFIED 6/26/13 R.A. PIERCE, M. FORD

VERIFIED 6/1/15 MSW

Title	**Description**
PILE DECAY	PILE # 2 @ PIER

Bridge No:	**Drawn By:**	**Date:**	**File Name:**
980020	RAP	7/7/2011	S0138072678

Bridge Inspection Field Sketch



Cap Information			Material Timber			
Length	Width	Height	Left Overhang	Right Overhang	Left Beam to End of Cap.	Right Beam to End of Cap.
20.333 ft.	0.833 ft.	0.979 ft.	1.333 ft.	1.500 ft.	1.167 ft.	1.333 ft.

Subcap Information			Material		
Length	Width	Height	Left Overhang	Right Overhang	Left Pile to Splice.

Sill Information			Material
Length	Width	Height	

Pile #	Material	Spacing	Width/Dia.	Height	Length	Orientation	Driven?	Replacement?	Removed?	Collar?
1	Timber	6 ft.	1 ft.			Vertical	Yes	No	No	No
2	Timber	5.5 ft.	1 ft.			Vertical	Yes	Yes	No	Yes
3	Timber	6 ft.	1 ft.			Vertical	Yes	Yes	No	Yes
4	Timber		1 ft.			Vertical	Yes	Yes	No	Yes

Bent/Abutment #: 2 Similar Bents:

Title	**Description**
ABUTMENT 2	ABUTMENT 2

Bridge No: 980020	**Drawn By:** MSW	**Date:** 6/8/2015	**File Name:** S0206001032